

```

1 GTTCTGAGAA GACAAGAGCA AGGGACTGAG AGCAGGCTTC CGCTGCGGCG
51 CGCGAACACA GCCGGGACAC AACCCTCAGC GTCTCCACCC GCTCCTCGCC
101 ACCCCGGCGG GAATGTGAGG AAGGAAAGCC CCCAGCGCCG CCGCCCGCCC
151 TCGAAGGCTG CCCAGAGAGC GTCCTGGGGG CCCGCGGCTG GAGCCCTTGT
201 GCCCGCAGCA CCGCCGGA CTGAGCGGCA GGAGCGCGG GCGCGACCG GTGCCGCTTC
251 TCGGCTTCCA CTCTTCAGAA AGAGCGCGGT GGGGATCAGC GCCTTTCCCG
301 CACTCGGCAC AACTCCGGGA CCGGCGGCGC GCGGCTGGAC CGAGTCCCGC
351 TTCCCGCCAG CTCACCTGGA GTCGGGGGCA GCCCTGCCC GCCCGCCTGC
401 ACCCCTTGTC GCTCTAGCTT GCGCGAACCT GCCGCTCCTC CACGCCCAGG
451 TAGTGAGCCC CGCGGTCCA GGTCTCTGCA GCGCCCTCGG CCCCATGGAC
501 AGCGCACCCA TCACCATCC CTAAGTGCTG GCGCCGCGC TGTTCAAGCT
551 GCGCACTGGG TCCCTCGGC TCGCCCTCT CTGGGCTGTC CGAGAGGCCA
601 GGGAGCGTGC ACCATGAAGT CCGCGCTTTT CACCCGCTTC TTTATCCTCC
651 TGCCCTGGAT CCTAATTGTC ATCATCATGC TCGACGTGGA CACGCGCAGG
701 CCAGTGCCCC CGCTACCCCC GCGCCCTAC TTCTCTCCCT ACGCGGTGGG
751 CCGCGGGGGC GCCCGACTCC CGCTCCGAG GGGCGGCCCC GCTCACGGGA
801 CCCAAAAGCG CAACCACTCT CGGCCGAGC CACAGCCGGA GCCGCAGCTG
851 CCCACATCT ATGCCATCAC GCCCACCTAC AGCCGCCCGG TGCAGAAAGC
901 GGAGCTGACC CGCCTGGCCA ACACGTTCCG CCAGGTGGCG CAGCTGCACT
951 GGATCCTGGT GGAGGACGCG GCGGCGCGCA GCGAGCTGGT GAGCCGCTTC
1001 CTGGCGCGGG CCGGGCTGCC CAGCACTCAC CTGCACGTGC CCACGCCGCG
1051 GCGCTACAAG CCGCCCGGGC TGCCGCGCGC CACTGAGCAG CGCAACGCGG
1101 GCCTCGCCTG GCTGCGCCAG AGGCACCAGC ACCAGCGCGC GCAGCCCGGC
1151 GTGCTCTTCT TCGCTGACGA CGACAACACC TATAGTCTGG AGCTCTTCCA
1201 GGAGATGCGA ACCACCCGCA AGGTCTCCGT CTGGCCTGTG GGCCTGGTTG
1251 GTGGGCGGCG CTACGAACGT CCGCTGGTGG AAAACGGCAA AGTTGTTGGC
1301 TGGTACACCG GCTGGAGAGC AGACAGGCCT TTGGCCATCG ACATGGCAGG
1351 ATTTGTGTGA AGTCTTCAAG TCATTTTGTC CAATCCAAAA GCTGTATTTA
1401 AGCGTCGTGG ATCCCAGCCA GGGATGCAAG AATCTGACTT TCTCAAACAG
1451 ATAACAACAG TCGAAGAACT GGAACCGAAA GCAAATAACT GCACTAAGGT
1501 TCTCGTGTGG CAGCACTCGA CAGAGAAGGT TAATCTAGCC AACGAGCCAA
1551 AGTACCACCT GGACACAGTG AAAATTGAGG TATAATAAAT TGAAGCAGCA
1601 ACTGGTGCAG TTTGTCCAGC CAGTGGATCC ATATGGAAGA GGATGTTTGG
1651 AGTTTAGGCT ACAGAGCATT CAGGTATTGT TTGTTTACT TCAGTACAGC
1701 AGCCTTTCTT GTCATCTGAT GGACATCTGT TTAAATGGAG CTTGTCAGTT
1751 AACATAAGCT AATTGGATGG TTGGTACAAA ATGTATGTTT TGTCTTCATT
1801 TGTTCTGCAT GTTTTCTCTA CAACAATAA ATTGGAAGAT TTTTGTGTAC
1851 AGTCGCCGATA CTCGAAGATA CCACTCTTGA GTATATATTT TTTCTTTTTC
1901 TCCAATTGTC CTTTATAATT GGTAGACTTG AACAGGTTGG TAGACTTGAA
1951 CAGGTTTTTA AAACAGACAA GTATTTTGTC AGCTAAACGT TCCTGATGAT
2001 TCCTGACTTT GCAATACTAA GTAATTTTGG GAAGGTTAGT GGCAGTATAC
2051 ATCATAGGAA ATAAAAACCC ACAATGAAA AGGTCTATGG AGTCATGTTT
2101 AATGTAGGGA AATAACATTT TGTCAATACT AGGCACCATA AAATGTAAAC
2151 ACAATTACTG TCATAAACCT AGATATACCT TCAAGGATTG AAGATTGAAA
2201 GTGGCTTTGT TTTAGTTAGT TACCCTGTTT GCATATAGTG CAGAAAAAGG
2251 TCTTCATGTT AGCACTATGT ACATTAAGAA GAGATCCAAA TTACAAGAGA
2301 GGCAGATAAA ATTTGAATTC TTTAAGCATT CATTAAACGA AGTTTGGAG
2351 TAACATCCAC GTTTATCTTC CTTTCACTAA TCACGTTCCT TGTTAAGCAC
2401 ATCATAACAA CAGCACAGTG AAGTGAATGA TGAAATAAGA GCATTTTGAT
2451 AACTAGAAA ACAGTGCTCA GTGAGACATT TACATTCTAT TTATATGATT
2501 AAACATTTGA TCATACAGTA CCTTCCTACA GGATTACTGG CTAATTTTGG
2551 GGTGGGGTTT ATACTATTAG AGGTATTACT AACATGATAA CTACTTCCCT
2601 TATATGCAAA CATTAGAGCT ATAATTTTAT TGAGAGGAAA ACTGATTTTG
2651 CAAGTTGAGC AGCTTCTCAA ATAATGCAGT ACATGAAATC ATGGGAAATA
2701 TGAGCAAAGC TGCCCTTGAC ATAAATGAT TTATCAACCT GCTTTTCACC
2751 ACATCAAATT GAATCAGTAC AGACCAACAC GGTCAATCAG ATCATTCTTA
2801 ATATGAACAA ATGGGTAAAA AGAAAAAAA TATGCATATG AATAAACAGG
2851 GGAAGTAGAT GCGTTTCAGC AAGGAATGTC AGGTGGTAGT TCTGGATGAA
2901 ACTTGATTG CAGTTTTCAT TTCCACAGTT GTGTGCTGAG AGTCTGACCT
2951 GATGAGCTTC CAGACCATCC TGCTGTTGTG CTGGAGGGCT GGCCAAAACC
3001 TGCAGTAGGG GTTGCATCTAC TGATACTCAT GCCAGCCATC TGCTGATTCA

```

FIGURE 1A

```

3051 TCTGTGAAAC ATATAAAAGG CTTAGTTCAA GAGGCTTACT TCACTTTTAA
3101 TTCTTGTTTC TTTAGCCACA CAGTTGGTCA TTTTTCATT AATGTGACAA
3151 CTAGTCCAAG CACTGGAATA AAAACAGAGT ACCATACAAA TATTTCTTAA
3201 AGCAAATAGC TACTTTGTTT CCTTCTTTAT CTACTTTCTA GATACAGTTT
3251 CCCCAAAAGAT TAACCACAAC TTACTTAAAA AAAAATACCA AAGCAATCTT
3301 GGGATTTTAA TGAGTCCGCT ACTCTAACTA ACTTTCACCT ACACTAGGAT
3351 ATTGTGCTTT AACTACTAAG GAGTAAGAAA ATTTTAGGAA GTAAAATAGT
3401 CTAAAATTAT CCTATAAACT TTGTATGATA GATATTATTC TCTATTAAAA
3451 TCTTATATAC TTCCTAAATA TTTTAAAGT GGCATAAAG CATTTATTTT
3501 TCTCGTGAT CTAACAACAT AAACATCTAA AATTTATTTT CATTGTATGC
3551 AATAAAGCAT AAGATTACAT GTATTTTCT TCAAGACTGG AGTCAAATAT
3601 ATATATATAT AAGCATCTTA ACCCTGTGAT TCTCTTACTT CCAAAAATTGG
3651 TGATAAGAGA AGGAAAGGCA AGATTTACCA TATAGTGAGT GGGTTTAAAA
3701 CTTACACTCA GAGTTAGACT GTGTTCTTAA TTTAATACAT TTGACTTGAC
3751 TTATTTACAG TTTCAAAGAC ACTAACATAA ACTACATCAC TAATCAGGCA
3801 TAAGTGCTG AAGAAGCAGA TCACATCTTC ATACCTACTA AAGGACATTT
3851 TAACCACCTT GTCATTGGCC AGTAGATTGC ACTGATGGAG TGCTGGAGAA
3901 CAGCATCACC CTTCTGCATT ATCTGGAAGT AAGAGCCAGT ATTAACCTCT
3951 TCCTGGTTCA TCTAGCACCT TAACCTGAGC TGGGTGTGCT TCAGCATGTT
4001 GACCATGTGA CTGACACTTA GCACATACAA TTTTTTAGAT TCCCAGCGGG
4051 TAGAGACCAA TGTTTACCT ATATTCTTGT AAATGGTGGT AGCAAAATTA
4101 ACTGTGATAT ATAGTGATTG TGCTAATGTT AGAAATCACT CTAGACTATT
4151 CCCTGAATGC TCTAAAGGTA AAACAAGTGA CCAAACAGAA ACCAAGATTG
4201 CCAAAATGCT GGAGGAACAT CAATGGGAAG TGTAAAAGGA AGAAGAGTGG
4251 GAGCATGAAC CTCTCTAAGA GCCTTTGTCT GTGCAGCTAG AGAAAAAGTCA
4301 GAACACAGCA CCTGAAATAG AAATGTTCTA TCTCAGCTCT AACTTAGGTA
4351 GAAATAGGAT TTTATAATAT GAGGGGATGT CTGGTTCACA CCTTATGGGA
4401 ATTGAATCTT TTTGTACTCT TTTTAAACAT AAAAGTCATT ATAGGGTATG
4451 TAAAAAGAAA ATACAACTTT ACAAAGGTTT CTCAACAAA AGAATTTTTTA
4501 CAGAGCCATG GGGCAGTAAT CATCCGACCT GAAAAATAGC CTTAGATCCC
4551 TCATAAAATA TGCTTTGAG AATATGAGGC TAGATTTTTA TTTCTAATA
4601 AAAGATCCTA AAATATTAG TGAAGCTAAG TTGTCTAAGT GGACTGTAAA
4651 AATGTCCCAC CAGCAAGCTG GATAAAGCTT AGTGCTAATC TCAGAGGTGA
4701 CAGAGAGGGA GTCTCATGAT GCCTGAGATA ATTTCTGGCC ATTAGTGGTG
4751 TTCACGTTAC AGTTACATTA CAATTTGAAA TGAAGATGT TTAACCTTTT
4801 TTTTACAGAA TACTCTAAAA TAGGGATAAT AACACATCAT TTGTCTATCT
4851 GATACAACCT CATAATATTT ATAGATACTT TTGACCCTAT AACATATTAT
4901 CCCTATTGAA TTCCTTCTGC CAGATCACTA GACTTAAAAA AAAAAAATAA
4951 AAAAAAATAA AAAAAAATAA (SEQ ID NO:1)

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FEATURES:

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5'UTR:      1-613
Start Codon: 614
Stop Codon:  1583
3'UTR:      1586

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Homologous proteins:

Top 10 BLAST Hits

	Score	E
CRA 145000039337387 /altid=gi 12018284 /def=ref NP_072131.1 ga...	598	e-170
CRA 98000043628449 /altid=gi 13016548 /def=emb CAC29377.1 (AL4...	409	e-113
CRA 18000005086948 /altid=gi 2217942 /def=dbj BAA20551.1 (D880...	299	4e-80
CRA 53000092569557 /altid=gi 12408652 /def=ref NP_061114.1 bet...	296	3e-79
CRA 114000015335056 /altid=gi 9453799 /def=emb CAB99368.1 (AL1...	263	2e-69
CRA 18000005216702 /altid=gi 4530369 /def=gb AAD22007.1 (AF113...	250	2e-65
CRA 157000140415748 /altid=gi 13195672 /def=ref NP_077218.1 RI...	250	2e-65
CRA 53000092570618 /altid=gi 12408654 /def=ref NP_036332.2 bet...	250	2e-65
CRA 18000005191928 /altid=gi 4008515 /def=emb CAA06742.1 (AJ00...	250	2e-65
CRA 53000092569540 /altid=gi 3892640 /def=dbj BAA34537.1 (AB00...	247	2e-64

FIGURE 1B

BLAST dbEST hits:

	Score	E
gi 2099917 /dataset=dbest /taxon=9606 ...	605	e-171
gi 5637891 /dataset=dbest /taxon=9606 ...	303	5e-80
gi 5236525 /dataset=dbest /taxon=9606 ...	303	5e-80
gi 471573 /dataset=dbest /taxon=9606 /...	303	5e-80
gi 1225232 /dataset=dbest /taxon=9606 ...	303	5e-80
gi 11130812 /dataset=dbest /taxon=960...	303	5e-80

EXPRESSION INFORMATION FOR MODULATORY USE:

library source:

From BLAST dbEST hits:

gi 2099917	testis
gi 5637891	prostate
gi 5236525	kidney
gi 471573	brain
gi 1225232	ear
gi 11130812	lung

From tissue screening panels:

fetal whole brain

FIGURE 1C

```

1 MKSALFTRFF ILLPWILIVI IMLDVDTRRP VPPLTPRPYF SPYAVGRGGA
51 RLPLRRGGPA HGTQQRNQSR PQQPPEPQLP TIYAITPTYS RPVQKAELTR
101 LANTFRQVAQ LHWILVEDAA ARSELVSRFL ARAGLPSTHL HVPTPRRYKR
151 PGLPRATEQR NAGLAWLRQR HQHQRAQPGV LFFADDDNTY SLELFQEMRT
201 TRKVSVWPVG LVGGRRYERP LVENGKVVGW YTGWRADRPF AIDMAGFAVS
251 LQVILSNPKA VFKRSGSQPG MQESDFLKQI TTVEELEPKA NNCTKVLVWH
301 TRTEKVNLAN EPKYHLDTVK IEV (SEQ ID NO:2)

```

FEATURES:

Functional domains and key regions:

[1] PDOC00001 PS00001 ASN_GLYCOSYLATION

N-glycosylation site

Number of matches: 2

```

1 67-70 NQSR
2 292-295 NCTK

```

[2] PDOC00004 PS00004 CAMP_PHOSPHO_SITE

cAMP- and cGMP-dependent protein kinase phosphorylation site

Number of matches: 2

```

1 202-205 RKVS
2 264-267 RRGs

```

[3] PDOC00005 PS00005 PKC_PHOSPHO_SITE

Protein kinase C phosphorylation site

Number of matches: 9

```

1 27-29 TRR
2 35-37 TPR
3 144-146 TPR
4 63-65 TQK
5 104-106 TFR
6 35-37 TPR
7 144-146 TPR
8 200-202 TTR
9 201-203 TRK

```

[4] PDOC00006 PS00006 CK2_PHOSPHO_SITE

Casein kinase II phosphorylation site

Number of matches: 3

```

1 281-284 TTVE
2 282-285 TVEE
3 301-304 TRTE

```

FIGURE 2A

[5] PDOC00008 PS00008 MYRISTYL
N-myristoylation site

Number of matches: 5

1	134-139	GLPSTH
2	152-157	GLPRAT
3	210-215	GLVGGR
4	266-271	GSQPGM
5	270-275	GMQESD

[6] PDOC00009 PS00009 AMIDATION
Amidation site

213-216 GGRR

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	5	25	1.850	Certain
2	239	259	0.881	Putative

FIGURE 2B

BLAST Alignment to Top Hit:

```
>CRA|145000039337387 /altid=gi|12018284 /def=ref|NP_072131.1|
galactoside beta-1,3-glucuronyltransferase [Rattus
norvegicus] /org=Rattus norvegicus /taxon=10116
/dataset=nraa /length=324
Length = 324
```

Score = 598 bits (1525), Expect = e-170
Identities = 291/324 (89%), Positives = 301/324 (92%), Gaps = 1/324 (0%)
Frame = +1

```
Query: 1 MKSALFTRFFILLPWILIVIIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPA 180
MKSAL RFFILLPWILIVIIIMLDVD RRP P LT RPYFSP+ VG GG+R+PLRR P
Sbjct: 1 MKSALCNRRFFILLPWILIVIIIMLDVDPRRPAPQLTSRPYFSPHTVCGGSRVPLRRSSPG 60
```

```
Query: 181 H-GTQKRNSRPQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDA 357
+KRN+SRPQ QPEP+LPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVED
Sbjct: 61 RDAAEKRNSRPQLQPEPRLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDR 120
```

```
Query: 358 AARSELVSRFLARAGLPSTHLHVPTPRRYKRPGLPRATEQRNAGLAWLRQRHQHQRAQPG 537
A RSELVS FLARAGLP+THLHVPTPRRYKRP LPRATEQRNAGLAWLRQRHQHQ AQPG
Sbjct: 121 ATRSELVSSFLARAGLPNTHLHVPTPRRYKRPWLPRATEQRNAGLAWLRQRHQHQSAQPG 180
```

```
Query: 538 VLFFADDDNTYSLELFQEMRTTRKVSVPVGLVGGRRYERPLVENGKVVGWYTGWRADRP 717
VLFFADDDNTYSLELFQEMRTTRKVSVPVGLVGGRRYERPLV+NGKVVGWYTGWR DRP
Sbjct: 181 VLFFADDDNTYSLELFQEMRTTRKVSVPVGLVGGRRYERPLVKNKVVGWYTGWREDRP 240
```

```
Query: 718 FAIDMAGFAVSLQVILSNPKAVFKRRGSQPGMQESDFLKQITTVEELEPKANNCTKVLVW 897
FAIDMAGFAVSLQVILSNPKAVFKRRGSQPGMQESDFLKQITTV+EELEPKANNCTKVLVW
Sbjct: 241 FAIDMAGFAVSLQVILSNPKAVFKRRGSQPGMQESDFLKQITTVDELEPKANNCTKVLVW 300
```

```
Query: 898 HTRTEKVNLANEPKYHLDTVKIEV 969
HTRTEKVNLANEPKYH+DTV IEV
Sbjct: 301 HTRTEKVNLANEPKYHMDTVNIEV 324 (SEQ ID NO:4)
```

```
>CRA|98000043628449 /altid=gi|13016548 /def=emb|CAC29377.1|
(AL450320) bA156I14.1 (UDP-glucuronyltransferase-S)
[Homo sapiens] /org=Homo sapiens /taxon=9606
/dataset=nraa /length=197
Length = 197
```

Score = 409 bits (1039), Expect = e-113
Identities = 197/197 (100%), Positives = 197/197 (100%)
Frame = +1

```
Query: 1 MKSALFTRFFILLPWILIVIIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPA 180
MKSALFTRFFILLPWILIVIIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPA
Sbjct: 1 MKSALFTRFFILLPWILIVIIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPA 60
```

```
Query: 181 HGTQKRNSRPQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDAA 360
HGTQKRNSRPQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDAA
Sbjct: 61 HGTQKRNSRPQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDAA 120
```

```
Query: 361 ARSELVSRFLARAGLPSTHLHVPTPRRYKRPGLPRATEQRNAGLAWLRQRHQHQRAQPGV 540
ARSELVSRFLARAGLPSTHLHVPTPRRYKRPGLPRATEQRNAGLAWLRQRHQHQRAQPGV
Sbjct: 121 ARSELVSRFLARAGLPSTHLHVPTPRRYKRPGLPRATEQRNAGLAWLRQRHQHQRAQPGV 180
```

```
Query: 541 LFFADDDNTYSLELFQE 591
LFFADDDNTYSLELFQE
Sbjct: 181 LFFADDDNTYSLELFQE 197 (SEQ ID NO:5)
```

FIGURE 2C

Hmmer search results (Pfam):

Model	Description	Score	E-value	N
PF00561	alpha/beta hydrolase fold	2.6	8.2	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF00561	1/1	112	130 ..	216 ..	233 .]	2.6	8.2

FIGURE 2D

1 CACAGTGTTC CATCTCTGAA TAGCCTTGGT TCCTGGAGAG GATGTAATAG
51 CAAATAGGTT TTATGGCATA GTTGGACCAA CCAAAAGTTC CCCACTAACA
101 AAGGTTAGTG ATGTTTTTAG TACAATTGAG TAACAACATG AATTTTATTC
151 CAGCAAACAC AAGGCATTTT AACCAAATTT AAAATTTCCA ACAGGATGAA
201 CCAGACTTCA GTAACCTTAGG GGAGAGGGGT GCACTGCTTC CTAAGAAAAA
251 CCTTTTCTTA AAGGGAGGCC TTGACTTCTT TCCTCTTCCC CATCCTGGCA
301 TGATGCTGGT GCAGAATACA TTTCCAAGGT TGTGTTATAT TCAGAGGCAC
351 ATTAGGCTAT TCGAGAGAAT GGAAGAGGT CTAATGGCTT CGTTGTTTTT
401 TATGTTTAGG ATGCACTAAT CTGCAGAGTT TAATGTATGA GTTGTGGATG
451 GCACAGGGAA GTTGGGACAG AAGGCTAGCT CTAGGGAGTT GTTGGGGTGG
501 CTGGGTGTTA GTCTGAAATT TCACTCTCAC GTTTCAGAAT CTGAAGAGGA
551 AGTTAGGGAA ATTACAGAT GAGCCAATGC CTTTAAACAG GTGGGGGGTT
601 CAGGGGTAGG ACTGGGAGAA GAGGAGCTGT CAGAAAAGCT GGAGAGCCAT
651 TCGCCCCAGA GCTCTCAGTT GCACCAGAAC GCACAGTCGG AGAGAGATTT
701 ATTTGTGAAC AAGCCCAGAA AAGGCAGACA ACCCAGACAA GATGGGCTCA
751 GAAATTATTT ATCATAGGCT AGGGCAGAAC AGTCTGGAGC TTTCTTCTG
801 CTTTGAAGC ACTTCCCTGG GACCTGCCTG GGAAGCACAG CCCTTCTTCC
851 TGGTAAGTTA CAGAAGGTCA GGCACTCAGC TAGTAGGCCA GCTAGACAAC
901 AAAAAGTGTC TAACTAAGT GCCAACTGTT TACTTGGGGT CTTCCAGACC
951 CTATCATGGT TCTATTCGTC ATGGTACACT CTGTTTGATT TCAATCGCAC
1001 CATCTTTATA TGTAGGAAGG CCAAACCGGC CCGCTGTGT TGGGTGGGAT
1051 TTCTGCAGGC CATGCAGTGA GGACGCCACT AGCTATAGAC ACACGCAGGA
1101 GACCCAGGTT CTATTTCCAT ATGCCACTTG CCACTGACCT CAGAGAAATC
1151 ATTTTAAACC CTGAACCTCA GCTTCTTAT CCTGAAAATG AAGGCCATTC
1201 TACTTCTTAG GCCTTCTTGA CAGGAGCCTT GGGAGAGCCA AACGGAGTAA
1251 TTCCGGTGAC AGCGAAGAAC TGGGAGGGAC CGTGACTCCA AATTACTGAA
1301 GAAAAATAAG TTAAACATGC TCGGCTGGAG TTTTAGGAAT TCCACCCGCC
1351 CCCACCCGCC ATGATCAAAC TGCAGTCAGG CAGCAGCCCT CCGAATTGAT
1401 TCTTTCTTAT GGACTGTCTC ACATGCCAAA CACCTATGTG CAGCACCCCT
1451 CCATCTCCGT GGGTCCCTAT TGATGTCTGC CTTGCAGTGA AAGCGCTTTT
1501 TGTTGCCGCT GTTCGATACA CCCCAGCACA TCAACGCAGC AGCTGGGAGC
1551 AGGAGGAGGA ATCCCTTCGC TTTCTCCCT CTTTCACTC CGAACCCTAG
1601 GCATCAGCAG CAACGCGCGT AGCCCGGCAA ATTTCCGCAC GTGAATGGAT
1651 TTTCCCTGGC CATCTCCAAA GACCTTGCGG TATTTCACAA AGCTGAAGAG
1701 AGGTGAACGA GCATCACCCC CTCCAGGAGG TCGTGCAGCC CCGCGGGGAC
1751 GCTCCTCCCG CTCCTCCACC CGCGGTGCAG CGGCCGCCTC CCGAGCTTGC
1801 TCGCGGGGCC GTTAGCGCCA GACCCGCGCG AGAGCCAAGG GGTCCCTCCG
1851 CGCCTCCCTC TCGCAGCCCC TCTCCACCAG TAGCAGCGCT GCTGTCTTCC
1901 CACAGGAGGA CTTGGGAGGA CGCTGGATTC TGCAGCGCCC CCGCCCCCTC
1951 GCTTTTCTTT TCTTTCTTTG CTTTGGGATC TTGTGCTGG ATCCGGAGAG
2001 GTTCTGAGAA GACAAGAGCA AGGGACTGAG AGCAGGCTTC CGCTGCGGCG
2051 CGCGAACACA GCCGGGACAC AACCCTCAGC GTCTCCACC GCTCCTCGCC
2101 ACCCGGCGCG GAATGTGAGG AAGGAAAGCC CCCAGCGCCG CCGCCCGCCC
2151 TCGAAGCGGT CCAGAGAGC GTCTTGGGG CCCGCGGCTG GAGCCCTTGT
2201 GCCCGCAGCA CCGCCGACT GGAGCGGCGA GGCGCACCGG GTGCCGCTTC
2251 TCGGCTTCCA CTCTTCAGAA AGAGCGCGGT GGGGATCAGC GCCTTCTCCG
2301 CACTCGGCAC AACTCCGGGA CCGGCGCGCG GCGGCTGGAC CGAGTCCCGC
2351 TTCCCGCCAG CTCACCTGGA GTCGGGGGCA GCCCCTGCCC GCGCGCTGTC
2401 ACCCTTGTG GCTCTAGCTT GCGCGAACCT GCGGCTCCTC CACGCCCAGG
2451 TAGTGAGCCC CGCGGCTCCA GGTCTCTGCA GCGCCCTCGG CCCCATGGAC
2501 AGCGCACCCA TCACCACTCC CTAAGTGCTG GCGCCGCCG TGTCCAAGCT
2551 GCGCACTGGG GTCCCTCGGC TCGCCCTCT CTGGGGTGTC CGAGAGGCCA
2601 GGGAGCGTGC ACCATGAAGT CCGCGCTTTT CACCCGCTTC TTTATCCTCC
2651 TGCCCTGGAT CTAATTGTG ATCATCATGC TCGACGTGGA CACGCGCAGG
2701 CCAGTGCCCC CGCTCACCCC GCGCCCTTAC TTCTCTCCCT ACGCGGTGGG
2751 CCGCGGGGGC GCCCGACTCC CGCTCCGCAG GGGCGGGCCC GCTCACGGGA
2801 CCAAAAAGCG CAACAGTCT CGGCCGCGAG CACAGCCGGA GCCGAGCTG
2851 CCCACCATCT ATGCCATCAC GCCACCTAC AGCCGCCCGG TGCAGAAAGC
2901 GGAGCTGACC CGCCTGGCCA ACACGTTCG CCAGGTGGCG CAGCTGCACT
2951 GGATCCTGGT GGAGGACGCG GCGGCGCGCA GCGAGCTGGT GAGCCGCTTC
3001 CTGGCGCGGG CCGGGCTGCC CAGCACTCAC CTGCACGTGC CCACGCGCGG
3051 GCGCTACAAG CGGCCCGGGC TGCCGCGCGC CACTGAGCAG CGCAACGCGG
3101 GCCTCGCCTG GCTGCGCCAG AGGCACCAGC ACCAGCGCGC GCAGCCCGGC

FIGURE 3A

3151 GTGCTCTTCT TCGCTGACGA CGACAACACC TATAGTCTGG AGCTCTTCCA
3201 GGAGGTAAG GCCAGCCTGC CCCGCTGGGT GGGCGAGGGC GGGAGTGGGC
3251 CTCGGGGCCG GCCGGGCTGC AGTCACACGC CCCTTGCACT CCGGGTGAC
3301 TTTTGAGTTC TCAGTTCTCC GTGCGCGCAT TCGGGGCACC GAGTGGAGCC
3351 GCTCCTTGCT GGCACCTCCG AGCCTCCGCT GGCCGTGGGG GTGGAGGGGC
3401 TGTGTGTGAG AGGATCACTG TGGCTTAAGG GGCGGGAGTC TGCCCTGGGG
3451 CTTTTCTGTG TGGAGATTGT GTCAAGAGAA TAGCACAGGT GTGAGGCGCG
3501 GGAATGATTT CCAGGGGCCA GGCTCCTGAC GACCTGAGGA TGGAGCTTAG
3551 ACCTGCAGGC GCTGGCTGCG ATAGGAGATC AGGGAGGGAC CTGCACCGTA
3601 GCGGGTGCGG GTGGAGGGGT GGGGGTGGTG GGGACGGGTA GGCTAGGTGT
3651 TACTCGAGGC TTTTCAGTGC CTACAGGTGT GATTCTCAGT CTAGGACCAT
3701 ATAGGGAGAA AGGTGGAGAT AGCCTAGAGA GAAATTTGAC TATTGCGGCC
3751 CACTGGCAGC GAAATGGTTG TTAGAAGAAA CACTGACTTC TATGGAGGTC
3801 CTTCCTCTCT TTCCCACACC TCACAAAAGT CTTTCTGAC CCTCAAGATT
3851 ACTTTTTTTT TTTTTTTGCA AGAAAACCTT TTCTGGAAAA TAACTGTTC
3901 TGCCCTGTGG TTAGCTCTTT TTTGCAGCCC AAGGTAACAA TCTGGGCTGC
3951 CTGATCCCTT TTCACAACTT TTCTCTAAGG CCTCTTTTTG GCGAGTTAGC
4001 CAGGACACAT TTGGCGGGGC CTTTTCGCTC TTTCTGGTGC AGCCAGGTCC
4051 TGAGTGCATC CGGGCTCCCT GCTGTTGAGA TGGCCCATGA GTTCCCTGGG
4101 ATGGCCACGC GCGCACCGCC CCCCCCGCC GCCCCCGCA GGCACAGGGT
4151 TAGAACAGGT GTTCTCTCCT GAGGCTGGTA TCTTGCGGTG TGTGTGTGTG
4201 TAGCCTGCAA ATGAGACTGA GTGGCATGGG TTTTCTCAGT TTTCTTCTGT
4251 CTACGCAATT ACAGCCAAAG AAAATCTTCT TGATTGATTT GACGCCCTGT
4301 GAGACTGTTG CTTCTCTCCA CTTGAAATTT CTTGACGTCC TGCTTCAGAG
4351 ACTCCCCCTC AATTCCCCTT CTCCCAAGTA AACTGGACAT TGGGAAATA
4401 CTATGTGTGA GTTGGACACT GAACTGCTAA AATAATCTGT GTGTCTGGTC
4451 ATCAGATACC CTAACCTGCT CCCACACTTT CATCCTCATC TCTGGGTTGC
4501 TTTCTTAACC CCAGGGCAGA GCTATTCTGT ACTCTTCCAG TTTAATTTTT
4551 CTGTGTGGCT TTAATAAAAT TTTCTTAAAG GTAAATGCCG CCTTCATTTT
4601 TATTATCCTT CTCTTTCATG AATAAAAGGC ACAGTAATTG TCCTTCATCT
4651 TTTCTTTTCC ATCCTTTCAC TGTAAGGGG TTTCTTTCCA CGTTTCTCCA
4701 AATGAATAAA TAAGCTTGGC ATTGTATAGT ATGGTCCTTA CTCAACCCAA
4751 GATTAGAGAT ACCATCTGAC GTTTTAACT GGGCTTTTAA TCCTGCATCA
4801 GTGCTCCCCC CTCCAAAAGA AAAAAGTGGC TTGCATCTGA AGCAAAGACT
4851 GTACATTTC AATGCACCACA ATTTTAAAC CGCAAGGTCT TTTTATTTTC
4901 TTCTACAAT TCGAAGTTGC CTCGTCTGTG ACAATATGTG GTCTTGTGA
4951 AGTAAATAG TGCACATTAC TGTTAATGAA CACTGTAGGA GGCTAGATTG
5001 TGAAGGAGGA ATGATTTAGT TTATTCCGAG CTTCTAGCCT CTTGGTGTGA
5051 GGTGTTAGAA GAATTGGCAC ACGCAGGCAG TGAAATGATT CAGGACACAG
5101 CCTTCCTTTG ATGCTTCCCA AACTGAAAGG AGGGTTTGTT GGTGGGGGAT
5151 ATTAAGCATC AGGAGAAAAT TCCAGTAGGT TTTTCATTAG TCCATATGGG
5201 GGAAAAATA AAATGAGGAG AGGGTAAGGA GAAAAAATA GTGTGTGTCAG
5251 AGAGGACATT ATAAAGGAAA AACGCAAAAC TTTCAAGACA CTAACATTTT
5301 GTACAATTGG AAGTAATGCA ATAAATAAAA ATAAGAGCAT ATGCAACATT
5351 TTTTAATGGT GAGGTGCCAC ATATACAAAA AATACAACAG GTTTATTGTT
5401 TCTGTTGTCA TTTTAAGCAT AATAGGCATG ACATACTTAG AATTTAAGTT
5451 TTCTATCTCC TGGAGGTCAC TCCCAGACAG TAATTTTATG ACTAGTACCT
5501 TTCTTACCA CTCCCCACC AGCATTGTTT TTGGACAGAT TAGGCCTTTG
5551 TTTGACATAT ATGTATGCTG ATACATTGAG TTTTCTTTAT TATAACATTT
5601 TCCATGCATG GCAAACATTA TTGAATTCCA TCATTAGGCT AGTGGAATTT
5651 ATGAATTCTT AGTCTTGTGC ATTTTCCAGA ATTTGGAAAT CCGTAGGTTT
5701 ATTTGTGAGA CAGCCTACCA TACACCCGTT CTCAGATTAA TGATTCCGTG
5751 TAAATTATAG TTTAGACATT GTTCTCTGGA GAAAACGTAG GACCAGATAA
5801 AACATTGAAA ATCTACAGCT CTTTGGGGGA AAGCAAAGAT GCTGATTAGG
5851 AATGCTATAG GGCTGAGGCA TATATCTCAG CCCTTTATAT TGTGCATGCA
5901 CACCAATTAG TTTTTCAGTA ATTCACAGTA CTTAAGGAAA GAATACCCCA
5951 AGTCAGGTTT CATCTTTTAT TCATGGTGCT TCTAATTTCC ATGGTTGATG
6001 TTAAAGTGGA TAAGATAAAA GGAGGAAAAT GAACCACGTA CAAATTAGCT
6051 CCGTAAGTAT TGGCTGCAAA TGAAGGAAAG CAAAGGATGA AAGGTCTCCA
6101 AATTAATTA AAGACGCAAC AGGCAATCTG TGTCAATTA TTCTCCCTG
6151 GTAACGGAA ATGGTGCTTT GTCATCTCAT ACAGCTAACT AATTTTCAGC
6201 CTTTCTTTT AACTGATCTG CATTGCCAGG AAAGAAATAT TTGCATTGAA
6251 TACTCTTATG TTAACAGCCA AATCCATTTG CAAATGAAGT TTAGTGTGAA

FIGURE 3B

6301 TCTTAGCTAC AGAAATGGGC CTGTTCATTG GAGAAGGAGG TGGTGGGGTT
6351 TTTTCAGGTTT CAAAAATCTC AACAGCTACT CCTCTTCTTC CTGTGGCATT
6401 GATGGGGTTT TGCACCTGTGG ATCACAGGTA ATCCTGCCTC CCTGTGCATC
6451 CTATCCATCT CCCTCTCTGG AAAAGCTTAC TTGCAAAGGA TTTAAGCTGC
6501 TTTAATAAAA GCCACAATA CAGATAAATG TGACTTTATT TTTAGTCATG
6551 TTTTCAATAA CACTATTGAT CAGATTCTCG TTTTTCACCA GAAAACCTTC
6601 AAAGCTTTCT TAAATTTAAA ACAGATGCTT TTCAGTGAA GTTGGTTTCA
6651 CCTCTGGAAA TCAATTGAAT TGAAATACTA AAAAAAATA GCACTTTCCA
6701 AGCAAGAAAA AAAAAAATT TAGAAATTTT GAAGTTAATG AAATAAGACT
6751 GGAAGACAGG CTGGCTCTCA GACACTTAAG GGGTTATCAA AGGAGTCAGT
6801 GACTGAGATT GCATCTAGAA GATGTTTCTG GAAAGCAATG AACTAAAGAA
6851 GCCCCTTGCT TGAATCTTTT GTTGGGTGCT ATTCTAGCTAT TTGTGTTACTA
6901 GGCAGATAAA GGAGTTTGA GGATTAATTC TGTCTTGCTT TTTTTCAGA
6951 AGTATTGTG TGCTTTCCCT CTTTACCTGC TGCTTATTGG AGTCATAATC
7001 TGAAGGATAT ACGAGTTTAC AATGTTTGGC CCTTTCCCC CTAAATAGTA
7051 CTTCTATTTA TGTTTCCTGA AAGGAAACAT GAGATTTACC TTTTACCCTT
7101 GGTACATTTA CTTTATTAG GGTAAATCTT TTTAAAGTGA AGGAACCTAG
7151 AAGATTTTCT TGGGTGGAAC ATTAAGAGAC CATTTTACCT GAAATGTGCC
7201 CCTTGTTATT TATTCTTTT CCTCTGAAAG CTATTAAGAG TCATGCCATA
7251 GGTCTGATAA AATGTGAGAA TTTTATAGAA ATGTATATAT GAAACTACAG
7301 CCAATTTTCT TAGGCTATAA ATGTTAGGTT TTCTTTATT TCCTGGGTG
7351 TACAGTATTT GAATTATGTT TCGTTTTTGA TAAGAGTTT CTTTGGAGAC
7401 CAGTAGTTTT CATTTGGATG TTGATATTTT AATGGACCAG AAATAACAAT
7451 TTGGGCCTAA AGATGTTCTC CTTCTGCCT CTTCTATTG TCTTTTCCA
7501 TCATTCTTCC TCTCTCAACC TACTTTTTCAC TGATGATTCT GTCTCGTGAA
7551 TAGACATGAA AACATGTTTC GATTATTGCT TGGTGCAATG AATGTTGTAT
7601 CTTTTAAACA TTTAGGCTGT TGCTGCTTCT TGGAAACCAT TGTGGGTGGC
7651 TCCCTTTTTT CTGTCTACTC TGCTTGCTC TAAATTACAA GCTGGTAAAT
7701 TTTCTCTTGT GTGAACAGTA ATGGAATAGT AATTGCTTTT AAGGCATGCT
7751 GCAAAAGCAA AATAGAAAAT CCAAAGTCAA TGGTCTTATT TATTAACAT
7801 TTCAGGTGGT ATTCAAGTAG TGGTAGGTTT TTTGTTGTCG TCATTGTTTT
7851 TTGCACAGAA TTCAATATTG TACAGATATG TCTATTTAAA TGTTTTGGAC
7901 TCTGGAATAT TCAGCCTGTG TAAGTTAACA CATATATATT TGATTCACAG
7951 TGCTTGTAAG GCATGAAATT TAAGTTTTCG ATGGAGCTCA AATTCTCCCA
8001 CCAAAATACA AATAAAATTG TTATACCAGT ACATAGATAG ATGCATAGGT
8051 AGGTTTAGAA TACATCTCCA AAGCACAGAA ATAAACTAA GATAATTGT
8101 TGTTTCATGCC TGGTAATTTT TGCATACAAT TTTAAATAAA TGTTAATACC
8151 CTATATCATG GATACAAGCA AAATATAGTT GACATAAATT GAGCATTTAC
8201 TATAGGCAAA GAAGTACCCT TAGGGTTTTA CGTGTATTAT TTAATCTTCA
8251 TAACACCCTG AGGTAGGTAA TAGTACTGTC TCTGTTGTT TGCTGTTTTA
8301 ATACTAATGC TAATATTTAG TTATGGACGC AGTCCCTTGG TGAGTACAGA
8351 GGACTTAAAC AAATGCAACC TGACGGTAAT ATAGTTGTTT ACCTCTGATC
8401 TATATAATCA GTATCCCCGT TTTTAACAGA AGCAGTGAAG AGTAACCTGA
8451 AAATGTCATG TAGCTGTTAT GTGGCAGAGA TAGAATTTTG AACCAGGTG
8501 CCCTGGTTCT AGCGCCTGCA TTGTTGACTG TCCTGAAACT CATGTCATT
8551 AACACATGAA AATATGTCAT CATTATAATA AGTAAAGCAC CTGATTAGCA
8601 GGAGCCTTGT GATATTATTA CTGTCTTCTG CCATTTTGA ATTCAGGTCT
8651 TTCTTCTTGG TTATGTCAAC TCTTAGCTTT CTCTTTGAC CTTTGTGTTAC
8701 TTTTTTCCTT TTTTGTGTTA ATGTATTACA TTGAAAAATA AAATTTTTTT
8751 TTTTTCGAAG AAAATGTACT TTATTAGCTT TCTTGTGTTCT GTGGGTGAT
8801 CTTCTGGAT ATTTCTTTAT TTTATTTTAT TTTATTATTA TTATACTTTA
8851 AGTTTTAGGG TACATGTGCA CAATGTGCAG GTTAGTTACA TATGTATACA
8901 TGTGCCATGC TGGTGTGCTG CACCCATTAA CTCGTCTTTT AGCATTAGGT
8951 ATATCTCCTA ATGCTCTCCC TCCCCCAAC CCCCACCCA CAACAGTCCC
9001 CAGAGTGTGA GTTCCCCCTT CCTGTGTCCA TGTGTTCTCA TTGTNNNNNN
9051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
9401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

FIGURE 3C

FIGURE 3D

FIGURE 3D

12601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
12951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13151	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13201	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13251	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13301	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13351	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13401	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13451	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13501	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13551	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13601	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13651	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13701	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13751	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13801	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13851	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13901	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
13951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
14001	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
14051	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
14101	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
14151	NNNNNNNTGT	GGGATATAAT	CTCCTGGTGC	GCCGTTTTTT	AAGCCTGTCA
14201	GAAAAGTGCA	GTATTAGGGT	GGGAGTGACC	TGATTPTCCA	GGTGCCCTCT
14251	GTCACCCCTT	TCTTTGACTA	GGAAAGGGAA	CTCCCTGACC	CCTTGCGCTT
14301	CCCGAGTGAG	GCAATGCCTC	GCCCTGCTTT	CGCTTGGGCA	CGGTGTGCTG
14351	CACCCACTGT	CTGCGCCCA	CTGCTGGCA	CTCCCTAGTG	AGATGAACCC
14401	GGTACCTCAG	ATGGAATGCG	AGAAATCACC	CATCTTCTGC	GTGCTCACG
14451	CTGGGAGCTG	TAGACCGGAG	CTGTTCTTAT	TTGGCCATCG	TGGCTGCCAG
14501	CTCAAAATTA	TATGTTAATA	TATTTGTTGT	GTAGACTATA	ATGTTTGTAT
14551	ATAGGGATAC	ATTGTGGAAT	TACTAAAGCT	AATTAATATA	TTCATTACCT
14601	TACAATTTTA	TCATTTTTTG	TGTGTGTGGT	GAAAACATTT	AAAATCTCCT
14651	CAGCAGTTTG	CAGGTGTACA	ATACATTGTT	AATAACTATA	GTCACCAATT
14701	TGTGTTGCAG	TTGATCTTCT	AAATGTATTC	TTTCTAACTG	AAATTTTGTA
14751	TCCTTTGACC	AAACATTTCC	CCAATTCCTA	CCCCTACCTT	TTTTCTCCTG
14801	ATAATATTTG	GTCTTGTGAA	AATTTTATCT	CATCTCTCAC	TATCTCTGAT
14851	TTATAGACCA	TTTGATATTT	ATTTTACAA	GCTAGATAAA	AACTGCCAAG
14901	TTAGTATATA	AACTGTAGTC	TTTTATTTTT	TAAACTACGT	ATTCTTGTGA
14951	ATAAGAATTG	ATAACTTCTA	TAGATATTAA	AATTAAGTTT	TTCTCATTTT
15001	GCTATGTATA	CATCAACAAC	TCTGTCTCCT	AGGCGTGTAT	CATGTCAGGG
15051	CAGGCAGAAC	TGAACGGAAG	AATAATTTTC	AGGGTAGAAT	GGGAGAAAAAT
15101	ACAGAAATTAT	GTGAAGCAGG	CTCAGGGGTT	TATTATTGAA	ACAGAGGAGA
15151	GGAGCTGGGG	GCCTGAGCCA	ATTTGCGCTG	AAGCCAATGT	GGCTGAGATG
15201	GCTCCTTCTG	GGAACAGAGA	TGTGCTTGGA	GGAGCCTTGG	TTCTCCTCAC
15251	CAATATACCC	CTTATGTTGG	CTGCTGCAGG	CAGCACTACC	AGGTTTCATTT
15301	GACTGCTCAC	TTGTTGGTAG	AAGGTTTGTT	AATTTTCTTG	TCCGATTTCT
15351	TCTGAGATTA	GGAATTTCTT	TGGATTAAAA	ACAAAATAAA	TCATTTGGTTG
15401	AGTCTTTTGT	CAGGTTAAAA	AAAACAAGAA	AACTTGGAGG	TGGATTTGCT
15451	GAGGAGGACA	GCCATGTTCT	CTACCAGAAG	TCAGATTGGG	TCTTTTCTCT
15501	AAAACAACTA	AAAACGCAGT	AGTTTGTTTA	CTTTTAAAAA	TCCGTCTCCT
15551	CCACCTGTGG	AAAGAGAACT	TTAAACACTA	TTTATGTTAC	ATGCTGAATC
15601	TAAGACTGTT	GTTCCCTCAG	CTTGAAGTGC	AGATATTCCT	AAATTGTACC
15651	TGCATCTCTA	GTGAAAGCTG	AGTGTGCTAA	ATGCTGACCA	TTCTCCATTA
15701	ACTGAGATTT	CAGTTATCTA	AGAGATTGTC	ATCTTAGCAG	TACTACTGTA

FIGURE 3E

15751 T T A C T C T G T A A G A T T C C T T C T A C C T A C C T G A G C T C A A A C T T C A T C C T A T T
15801 C A G A A G A T G T T T A A T A T A A C A A G T C A G T A G G C C T T C T C T A C C A C T T A A C
15851 A A A T A T T A A T T G A G C A C C T A C T G T G T A C A A G G C A C T G T G C T T A A T T A A G T
15901 C A G G G A G T A T T T C A G C T C C C T G A A A C A G A G A G C A T C T C A G C C C T C C C A G A
15951 T T G A T T C T C T G G A C T A A A T A T G C A T G G T A G C T T C A G T G C C T G T T G A G A G A
16001 A A T G A A T G T G T C T G G G A G T G T A A A G C A G A G G T C C C T A A T G G A G T T G T T G A
16051 T T G T A G G A G T A A T T G T G G A G G A A G T G A C A T T T G A G C T G A G A A G T A A A G A A
16101 C A A C A G G G C C T A G T G G G T G A T G G G A C A G G G A T G A A G G A G C C C T C C A G A G A
16151 G A G A A A A C C A T A T T T G T G G A C C T G A A T A C T C A G A G A C C T G A A G G A T G T T C
16201 T T G A T G G C A A G A G G C T G G G T G G T G A G A A G A T G A G G T G G A G A A A T A G G C A G
16251 C C A C T T T T C C A T C T T C T G C A T G T C A A A G T G C T G T T C T C A T C T T T G A G A G A
16301 A G C T G T C C T G T A A A G A A C T C T T C A G G T T C T G T G A T T T G G A A G T G G C A T C
16351 T A A A T C A T G C C C A T T G G A A T C T T C T T C C T G A T A C T A T C A T G T C T T T A T G
16401 T A A A C T T G T G A A T T T A A A A G T A T A C A T A G C A G T G T C G G A G C A G G C T T T T C C
16451 T T T T T A T T T T T T T G C A T C T G G T T T C A G A A T G C C C A T T A G G C A A A T T T T T
16501 G A C C T T T A A C T T T T T C A A T A G G C C T T G G A T A A G G T G G G T G G T A A A T T G A T
16551 A G G A A A A C T A T A G A T A A G T A T T G T C C A T C T A G T T G T A C C A A A G A A G T G G
16601 T A A T A T A G A C T T T T G T G G A T C C T T T A G A G C A C C T G A T A T C A C A T T A A A T A
16651 A T A T G A T A C C T G A A T A T G T A T T C A G T T G T T T C C C A C T A G A A T A C C A G
16701 G G T A G G A A T T T C T T T T G T T A C T G T T G T A T C T G T A G T G T C C A G A G C A G T
16751 G C C T A G C A T G C A G T G A A T G C T T A T T A A A T A T T T T T T G A A T G A A T T A
16801 T A A G A C A C T T G G A A G C T G A G G G A A T T T A T T A T A A A C A G A G T T T A A T C C C T
16851 G A A A G G A G T C C T G C A C A G A G A T T G T C A A T C A A A T C A T A G T T T G A A G T C T
16901 G T G T T G T A T G T C T A A G A T T G T A T T G A G C C C T T T A A A T A G A A A C T G G A A G A
16951 T A A A C G T G G T C C C T A C T C T G A T T C T A A G A G C T T T T A T A C T A A A A G G A A A G
17001 A G A A T G T C A T G A G C A T T T A T G T A T A T A G C A A G G C A T T A C C A T C A A C A G C C
17051 A T T A A A A G G G G A G G T T T G T C A A G G T G G T C G T G A G T C A G T T G A G T A T T T G G
17101 C C T C T T C A C A C G T G T G A G A G G C T G G A G G C T G G T G G G G A G C T C A C A T A G G C
17151 G T A A C A G C C C A T G T T C A A A T C C A G C T T C A C T G C T T A G T G T T T G C A T T A C A
17201 T T G G C A A G G G T T G A C T G C C T C G A G T G A T T G T T T T A A G T G C T C T A G G C A A G
17251 T A A T A A A T A T A G T T C T T T T T G C C T T G T T C T T C C A C T A T G G G T G A C T G C
17301 C C T A A T T G A G G G T A T A C C A G A T A A T T G C A C T G T C T T G A T T T G T T A A G T G C
17351 C T C T A A A T G T T C T T C T C C T G A C A T C T G G A C T A T G T T T C T A G A G G C C T A G G
17401 G G G A G G A G G A G G T A A A G G C A C T T G A C T T T C C A A A T T A G T C T G T A C C C A A
17451 G T G G A A C T G C A T A A A A T T G G G T A C C T T A A T T A C A C C A T T G G G T A T T A C T A G
17501 G G T G A T T A C A G G G A C A A G A G T T A A A T A G G G C T T G T C T A C A A A G A G T C C T G
17551 G G A G G A A G T G A G A T G T G A G A G A A C T A A A A G C A T C T A A A G G A C A T T T T A G A
17601 T G G A G A G G A G G T G A A G G G T G T T C T C C T G T G G G T T C T G A C T T C T G A T G C T A
17651 A C T C C T A A C G G T G A A A G C T A G G A A G T T G A C T T A C A T G T A G C T C A G A G G A G
17701 G A T G C T A A C C T G G C T C A C T G C A A C T T C C A C C T C C T G G A T T G A A G C G A T T C
17751 C C C T G C T T C A G C C T C C T G A G T A G C T A G G A T T A C A G G T G C A A G C C A T C A T G
17801 C C T G G C T A A T T T T T G T A T T T T A G T A A A G G T G G G G T T T C A A C A T G T T G G C
17851 C A G G T T G G T C T C A A A C T C C T G A C C T C A G G T G A T G C A C C C A C C T C G G T T T C
17901 C C A A A G T G C T G G G A T T A C A G G T G T G A G C C A C G G T G C C T G G C C C T A G G T G T
17951 G G T T T T T A A T T A C T A T G T A A T C C C A G G G C C A G T G T G G A C C T A G G A C A T A
18001 G T T A C T A C A T G A T A C A G T G A T T A T C G T T G G C A C A A A T G A A T G A A T C A A A G
18051 A G A T A G T A T G T T A C A A A G G A G A G G G C A C G A A A T A G A T T T T T T T T G A G C
18101 A C A T G A T T A G A A G C A G T A T T T T A A G G T C A T T T C C T G G G C T G G A A G G T T A
18151 G G A A T A T T C T T C T G A C C A G C A C C T G T T G G A G G A G G T G G A A A G G A T C C C A G
18201 A T G C C A G C C T T C T C T G T G T C C A C C C T T C T C C A G C C T T G C C T G G G G A C A C
18251 T G A G C C C C T T G C T G G G C T T C A A G T G C C T G A T G C T T T T T T G G G A A G C C C C A
18301 T A A G C T T G C T T C T C T T T T T G C A A A C A T T G C T T A A G T T T T C A T T A A T A A A A
18351 A C A T T C T A A A G C T T A T T T A G T C C A G A A T G A G G A A A T G T A G G A G A G A G
18401 A G G G T G T G G G T G T G T G T G T G G G C A G A G G G G T G T C T G T G T G T G G T T T T A C
18451 C T A C C T A T G T G G T T G C C C C T T C T T A C C T G T G A A T G C A G T G G C T G C T T T C C
18501 T T G T T C C T T C T C C A C A G A C C T G T G T A C C C T C C A T T T C A G T T T C T G G C A A G A
18551 A T T G T G G C C A G A C C C A G G G A T G C T G A T G C A G T G G T C C C C A A C A T T T T C T G
18601 G T C A C A T A A T T T C T A A A A G A A T T T T G T A A C A T T A A C C C T C T G G G A T A T T T
18651 T T T A A T T G A C A T C T A C A T T T T A T T T T T T T T A T T A T T T T A T T A T T A T A
18701 C T T A A G T T T T A G G G T A C A T G T G C A C A A T G T G C A G G T T A G T A C A T A T G T A
18751 T A C A T G T G C C A T G C T G G T G T G C T G C A C C C A T T A A C T A G T C T T T A G C A T T
18801 A G G T A T A T C T C C T A A T G C T A T C C C T C C C C C A C C A C C C C A C C C A C A C A G
18851 T C C C C A G A G T G T G A T G T T C C C T T C C T G T G T C T G T G T T C T C A T T G T T C A A

FIGURE 3F

18901	TTCCCATCTA	TGAGTGAGAA	CATGCGGTGT	TGGTTTTTTG	TCCTTGCAAT
18951	AGTTTACTGA	GAATGATGAT	TTCCAATTTT	ATCCATGTCC	CTGCAAAGGA
19001	CATGAACTCA	TCATTTTTTA	TGGCTGCATA	GTATTCCATG	GTGTATATAT
19051	GCCACATTTT	CTTAATCCAG	TCTATCATTG	TTGGACATTT	GGGTTGGTTC
19101	CAAGTCTTTG	CTATTGTGAA	TAGTGCTGCA	ATAAACATAC	ATGTGCATGT
19151	GTCTTTATAG	CAGCATGATT	TATAGTCCTT	TGGGTATATA	CCCAGTAATG
19201	GGATGGCTGG	ATCAAATGGT	ATTTCTAGTT	CTAGATCCCT	GAGGAATCGC
19251	CGCACTGACT	TCCACAATGG	TTTTACTAGT	TTACAGTCCC	ACCAACAGTG
19301	TAAAAGTGTT	CCTATTTCTC	CACATCCTCT	CCAGCACCTG	TTGTTTCCTG
19351	ACTTTTTAAT	GATCACCATT	CTAACTGGTG	TGAGATGGTA	TCTCATTGTG
19401	GTTTTGATTT	GCATTTCTCT	GATGGCCAGT	GATGAGCGTT	TTTTCATATG
19451	TCTTTTGGCT	GCATAAATGT	CTTCTTTTGA	GAAGTGCTA	TTCATGTCCT
19501	TCGCCCACTT	GTTGATGGGG	TTGGTTGGTT	TTTTCTTGTA	AATTGTGTTG
19551	AGTTCATTGT	AGATTCTGGA	TATTAGCCCT	TTGTCAGATG	AGTAGGTTGC
19601	GAATATTTTC	TCCCATTTTG	TAGGTTGCCT	GTTCACTCTG	ATGGTAGTTT
19651	CTTTTGCTGT	GCAGAACTC	TTTAGTTTAA	TTAGATCCCA	TTTGTCAATT
19701	TTGGCTTTTG	TTGCCAATGC	TTTTTGGTGT	TTAGACATGA	AGTCCTTGCC
19751	CATGCCATAG	TCCTGAATGG	TAATGCCTAG	GTTTTCTTCT	AGGGTTTTTA
19801	TGGTTTTAGG	TCTAACGTTT	AAGTTTCCAT	CTTGAATTAA	TTTTTGATA
19851	AGGTGTAAGG	AAGGGATCCA	GTTTCAGCTT	TCTACATATG	GCTAGCCAGT
19901	TTTCCCAGCA	CTATTTATTA	AATAGGGAAT	CCTTTCCCCA	TTGCTTGTTT
19951	TTCTCAGGTT	TGTCAAAGAT	CAGATAGTTG	TAGATATGCA	GCGTTATTTT
20001	TGAGGGCTCT	GTTCTGTTC	ATTGATCTAT	ATCTCTGTTT	TGGTACCAGT
20051	ACCATGCTGT	TTTGGTTACT	GTAGCCTTGT	AGTATAGTTT	GAAGTCAGGT
20101	AGTGTGATGC	CTCCAGCTTT	GTTCTTTTGG	CTTAGGATTG	ACTTGACGAT
20151	GTGGGCTCTT	TTATGGTTCC	ATATAAACTT	TAAAGTAGTT	TTTTCCAATT
20201	CTGTGAAGAA	AGTCATTGGT	AGCTTGATGG	GGATGGCATT	GAATCTATAA
20251	ATTACCTTGG	GCAGTATGGC	CATTTTCACA	ATATTGATTC	TTCTACCCA
20301	TGAGCATGGA	ATGTTCTTCC	ATTTGTTTGT	ATCCTCTTTT	ATTTCATTGA
20351	GCAGTGGTTT	TGAGTTCTCC	TTGAAGAGGT	CCTTCACGTC	CCTTGTAAGT
20401	TGGATTCCCTA	AGTATTTTAT	TATCTTTGAA	GCAATTGTGC	ATGGGAGTTC
20451	ACTCATGATT	TGGCTCTCTG	TTTGTCTGTT	ATTGGTGTAT	AAGAATGCTT
20501	GTGATTTTTG	TACATTGATT	TTGTATCCTG	AGACTTTGCT	GAAGTTGCTT
20551	ATCAGCTTAA	GGAGATTTTT	GGCTGAGACA	ATGGGGTTTT	GTAGATATAC
20601	AATCATGTCTG	TCTGCAAACA	GGGACAATTT	GACTCCCTCT	TTTCCTAATT
20651	GAATACCTTT	TATGTCCTTC	TTCTGCCTAA	TTGCCCTGGC	CAGAACTTCC
20701	AACACTATGT	TGAATAGGAG	TGGTGAGAGA	GGGCATCCCT	GTCTTGTGCC
20751	CGTTTTCAAA	GGGAATGCCT	CCAGTTTTTG	CCCATTCACT	ATGATATTGG
20801	CTGTGGGCTT	GTCATAGATA	GCTCTTATTA	TTTTGAGATA	CGTCCCATCA
20851	ATACCTAATT	TATTGAGAGT	TTTTAGCATG	AAGCGTTGTT	GAATTTTGTC
20901	AAAGGCCTTT	TCTGCATCTA	TTGAGATAAT	CATGTGGTTT	TTGTCTTTGG
20951	TTCTGTTTAT	ATGCTGGATT	ACATTTATTG	ATTTGCATAT	ATTGAACCAG
21001	CCTTGATCCC	CAGGATGAA	GCCCACCTGA	TCATGGTGAA	TAAGCTTTTT
21051	GATGTGCTGC	TGGATTCCGT	TTGCCAGTAT	TTTATTGAGG	ATTTTTCAT
21101	CCATGTTTAT	CAAGGATATT	GGTCTAAAAT	TCTCTTTTTT	GGCTGTGTCT
21151	CTGCCCGGCT	TTGGTATCAG	GATGATGCTG	GCCTCATAAA	ATGAGTTAGG
21201	GAGGATTCCC	TCTTTTCTA	TTGATTGGAA	TAGTTTCAGA	AGGAATGGTA
21251	CCAGTTCCTC	CTTGACCTC	TGGTAGAATT	CGGCTGTGAA	TCCATCTGGT
21301	CCTGGACTCT	TTTTGGTTGG	TAAGCTATTG	ATTATTGCCA	CAATTTCAGA
21351	GCCTGTTATT	GGTCTATTCA	GAGATTCAAC	TTCTTCCTGG	TTTAGTCTTG
21401	GGAGGGTGTA	TGTGCCGAGG	AATTTATCCA	TTTCTTCTAG	ATTTTCCAGT
21451	TTATTTGCGT	AGAGGTGTTT	ATAGTATTCT	CTGATGGTAG	TTTCTATTTT
21501	TGTGGGATCG	GTGGTGATAT	CCCCTTTATC	ATTTTTTTGT	GTCTATTTGA
21551	TTTTTCTCTC	TTTTCTTCTT	TATTAGTCTT	GCTAGTGGTC	TATCAATTTT
21601	GTTGATCCTT	TCAAATAACC	AGCTCCTGGA	TTCATTAATT	TTTTGAAGGG
21651	TTTTTTGTGT	CTCTATTTC	TTCAGTTCTG	CTCTGATTTT	AGTTATTCTT
21701	TGCCTTCTGC	TAGCTTTTGA	ATGTGTTTGC	TCTTGCTTCT	TTAGTTCTTT
21751	TAATTGTGAT	GTTAGGGTGT	CAATTTTGGA	TCTTTCCTGC	TTTCTCTTGT
21801	GGGCATTTAG	TGCTATAAAT	TTCCCTCTAC	ACACTGCTTT	GAATGTATCC
21851	CAGAGATTCT	GGTATGTTGT	GTCTTTGTTC	TCGTTGGTTT	CAAAGAACAT
21901	CTTTATTTCT	GCCTTCATTT	CGTTATGTAC	CCAGTAGTCA	TTCAGGAGCA
21951	GGTTGTTTCT	TTTCCATGTA	GCTGAGCGGT	TTTGAGTGAG	TTTCTTAATC
22001	TTGAGTTCTA	GTTTGATTGC	ACTGTGGTCT	GAGAGACAGT	TTGTTATAAT

FIGURE 3G

22051 TTCTGTTCTT TTACATTTGC TGAGGAGAGC TTTACTTCCA ACTATGTGGT
22101 CAATTTTGGG ATAGGTGTGG TGTGGTGCTG AAAAAAATGT ATTTTCTGTT
22151 GATTTGGGGT GGAGAGTTCT TTAGATGTGT ATTAGGTCCG CTTGGTGCAG
22201 AGCTGAGTTC AATTCCTGTG TATCCTTGTT AACTTTCTGT CTCGTTGATC
22251 TGTCTAATGT TCACAGTGGG GTGTTAAAGT CTCCCATTAT TATTGTTTGG
22301 GAGTCTAAGT CTCTTTGTAG GTCACCTCAGG ACTTGCTTTA TGAATCTGGG
22351 TGCTCCTGTA TTGGGTGCAT TTATATTTAG GATAGTTAGC TCTTCTTGTT
22401 GAATTGATCC CTTTACCGTT ATGTAACGGC CTTCTTTGTC TCTTTTGATC
22451 TTTGTTGGTT TAAAGTCTGT TTTATCAGAG ACTAGGATTG CAACCCCTGC
22501 CTTTTTTTGT TTTCCATTG CTTGGTAGAT CTTCTCCAT CTTTTATTT
22551 TGAGCCTATG TGTGTCCTG CACGTGTAGT ATGGGTTTCC TGAATACAGC
22601 AACTGATGAG GTCTTGACTC TTTATCCAAT TTGCCAGTCT GTGTCTTTTA
22651 ATTGAGCAT TTAGTCCATT TACATTTAAA GTTAATATTG TTATGTGTGA
22701 ATTTGATCCT GTCATTATGA TGTAGCTGG TTATTTTGCT CGTTAGTTGA
22751 TGCAGTTTCT TCCTAGCCTT GATGGTCTTT ACGTTTGGC ATGATTTTGC
22801 AGTGGCTGGT ACCGGTTGTG CCTTCCATG TTTAGTGCTT CCTCAGGAG
22851 CTCTTTTAAAG GCAGGCTGG TGGTGACAAA TTCTCTCAGC ATTTGCTTGT
22901 CTGTAGAGTA TTTTATTTCT CTTCACTTA CATTTTAAAA ATCATTTTAA
22951 ACTGTTGCAA AACTTTTGAT TTCCAGTGCA TTATAAATGT TGACATTTGT
23001 AATGAAATTT AAATATATCC AGTAGATCTA TAAATATTGT TAACAGTTTG
23051 ATACCCACCA CCATTCATTT AATAAACATA CTTTTCATG ACATTTGGAT
23101 GGAGATATAT ATATACACAT ATATATATTT TTTAAGTGAG ACAGGGGTCT
23151 CTCTCTGTTG CCCAACTGG AGTGTAGTGG TGCATCACA GCTTACTGCA
23201 GCCTCCACCT CCCTGGGTCA AGCAATTCTC CTGCCTCACC CTCCTGAGTA
23251 GCTGGGACTA CAGGCACATG CCACCATACC TGGCTAATTT TTATTTTAT
23301 TTTTTTTTGG TAGAGACAGG GTCCTCCTAT GTTCCCTGG CTGGTCTCAA
23351 GCTCCTGGCT TCAAGCAGTC CTACCGCTC ATCTTTCCAA AGTACTGGTA
23401 TTACTGGTGT GAGCCACCAC ACCTGGCCAC GTTTGGATAT TTTATATTGC
23451 TCTTTTTTTT TTCTATCTTC ATTCCTCCTC AGAATTTTAT CTTAGCATAA
23501 TATTTTGAGG TTTCAAAGTCA TCTCCCTATT ACACATATCT ACAATGACAA
23551 AAAGAATATA GATAGAATTT AAAGTTTAT AATCCTGTGG CTATCAGCCT
23601 CTGTCTTAGA AAAGCTTCAG GACTGACTTA CCATTACAAT TAGTATTGGT
23651 AAACAATTAA TCAAAACAAC AATAAATGTT ACAGGGTTGG GTAATTAAC
23701 ATTAAACATA AAAGCTACAT TTATTAGATT TCTTAGTGAC ATGGATGGAG
23751 CATTTTGTTG TTGATTATAT ATTCTGTATT GACAAATATT ACAGATTGCT
23801 AGAGATAGAA TTTAGTATAA ATTTCAATCC TATTAGGTCA ACTTTTTTTT
23851 ACGTAAAGAA GTAAATTAAGG TGGGAATCAT TTTCTTACAG CAGTGTTTCT
23901 CAGTTTTTTG AACTCTCAAG CTTTAAAGCA AAAATTACAT GGTGATCTGA
23951 CAGCAAAAAC TATTTTAATG ATTTATTAAT GATATTAGGT CACCTCCAGT
24001 TTTGTTGAAT GCAAATAGTT AGAAACCTCT GGTTGCCCA AAGGATTTAT
24051 TACCCATTCA TTAGAGACAT TGGCTTTCTT AATAAAGATA GCAATATTTT
24101 TGATTACCTT TGTTTGGTGC CCTGGAGGTT ATATTAGGTG GGACAGTGCA
24151 TTTAATAACA ATACAGGATG GGTGAGCAGT CAGGCCCTTT GTGAAGTGGG
24201 AGAAGGGTGA TGTGAAGTGG GGTGGGGCGG GGGTGGGGG CAGAGCGAGA
24251 GAGAAGCATG GAGAACCTGC CCCTATCCAA GTGGATCAGT TTTAGGAAAG
24301 CTTATGCCGT ATGTAGGGAT GCCAAGGGTC TGGGAATTTA TTCCCTAACT
24351 TAAAGTTATC TGCATTACA TATTCCATGG AGAGTTGTAT GCATTCAGGT
24401 ATCATGCACT CCCAGTCTGA AAACTGCTC TTTTGGTTGA AAGAGTATAA
24451 GGACTTGGA GATGGGGCCT CTAGGCCTGA CTGAGCCAAA GGCTCCCATG
24501 ACCTCAAGGG AACTGACTAG TGCTTTTTTC ATTTTTTACT GCGTCTGGG
24551 TCCCACCCTT GGCATTCAGA TGTGTGCATG AGCTGCTGTT TAATTTTCAT
24601 CATCTGCTTT ACAAATGAGG AAAAGCCCTG ATATCCAGCT CCCTCATAGG
24651 ACCTGATAAT AATACATATG GTTCTGAGAA TTAAACGAGG TAATAGGTAC
24701 GTAAAGTGGG TAAACAGAGT AACTTCACTC TCTATTTGTA CGTCTCTCAG
24751 AAGTCTGGGG CAACAGGAGC TGTGGAAGGC TCCAGAAGAC AAGATGTCAC
24801 AAAGCCACCT AGCTACTGTG GCTGTACCAA TCCTGACAGT CATAGCGGCC
24851 CCAAGGTGCT GCTCTGTTGG CTGATGGGAA TGCAGATTTA CGTATGGTCC
24901 ATATATGGAC GTGTTGTTTT ACATCTAAAT AAACCTGGCA TTGCAAGATG
24951 AAAATGCCAG TATCATTTTT AAAGGTCAAG TGACAGTTTG GGAAGATTTT
25001 TATAACTTTG ATAAGTTCTT CAGCTACATC TGTTCACT GGCAGAGTG
25051 CTAGAGACAT TCTTGGGAAG TCTTTTCTAT CAGAGGAGCT GCAGCCTTGC
25101 TCTGCAGAAA AGTCTGTATG ACAGTCATCA GAGTATTGG GGCTCATGCA
25151 CTAAGTGTTA ATTATTTTCA TTTTTCATTA ATGAAAATTT ATTTTAATTT

FIGURE 3H

25201 TTTTCATTCT TCTTTAATGA ATTTAACTAT TTGCCTCTAC CTTTGCTTCC
 25251 TGCTTTGTAT ACTGATAAGA CAGGTTTGG GGTTTTATG TTTTCTGGTC
 25301 TTGCTTTTCC CCTTTGTTTT AGGATTTAAA AAACAAAAG GTTAAGAGGG
 25351 TAGGTTGACA GTGCTTGACAG TTTCTGTTTT ACAGCAATCC CAGCTGTTCC
 25401 TCTGAAAATT GGTTGATTGT CCTATAGTTT AAAATATATA GATGTTCAAT
 25451 TGATTGGCTC TTGTAAATCT AGTGACATTT AAAAGTACAT GGCAGCTAGT
 25501 CATGGTGGCT CACACTTATA ATCCCAGCAC TTTGGGAGGC TCAGGCAGGA
 25551 GGATGGCTTA GCCCAGGAGT TCGAGACCAG CTTGGGTAAC ATCATGAGAC
 25601 CCCAACTCTA CAAAAATTTT TAAATAGTTG TGAGTGGTGG CATGTGCCTG
 25651 TACCCTCAGC TACTTGAGAG GCTGAGGTGG GAGGATTGTT TGAGACCTGG
 25701 AGTTTGAGGT TGTGGTGCTC TATGATTGCA CCACTACACT CCAGCCTGGA
 25751 TGATAGACTG AGACCTGTGC TCAAAAAAGA AAAAGAAAAA AGTTCATGTC
 25801 TATTCTGTTT TTTGTTATGT TACTTTCCTC TAAACATGAA GAAAAGCAGT
 25851 GAGGAGAAAC AAAAATTGAG TATTCCTGTG TTTTATATCA TAGTAAATA
 25901 TACATTTGCC ATTTTATATT TATCCTGATA ACCTTCAGTG TTGTAAATA
 25951 CACATTCACA ATTATTCATT TAACCTGATA ACCTCTAATC TCTTTTCCAT
 26001 GAATCGGACT AGGTACCTCA TATAAGTGGG ATCATACCAT ATTTATACTT
 26051 TTGTGTCTGG TTTATTTTAC TTAATGTCTT TAAGGTTTAT CCACATTGTA
 26101 GCATGTCTCA GAATTTAATT CCTTTTGGG GCTGAATAAC ATTCTATTAT
 26151 ATGTATATTC CACATTTTGC TTATCCATTC ATCTCTTGAT AGGAAGTTGT
 26201 GTTGCTTTCA CATTTTACCT ATTGTGAATA ATACTGGTAC CAATATTAGT
 26251 GTACACATAA TCTGAGTCCC TGCTTTCCGT TCTTTTGGGT ATATACACAG
 26301 AAGTAAAATT GCTAGACACA ATGGTACTTC TATGTCAGTT TTTTGAAGAA
 26351 CTACCCTACT GTTTTCCATA GCAGTTACAC CATTTTACAT TTCTATCACC
 26401 AGACCACGAG GGTAACAATT TCTCCACACC TTAGCCACCA CTTGTTATTT
 26451 TTTGTTTTTT GGGTAATAGC CATGCAAAAA AATATGAAGT AAAGTGAAAT
 26501 ATCATTATGA AAGGTGTGAA GTGATATGTC TTTGTGATTT TGATTTGCAT
 26551 CTCTCCTATA ATTAGTGATG TTGAACATCT TTTTATGTGC TTATTGGCCA
 26601 TTTGTCTGTC TTCTTTGGGG AAATATCTCT TCAAGCCTAT TCTGCCCATT
 26651 TTTGAATTGG GTTTTGTGTG TTTTAGGAAT TCTTTAGATA TTTTGGATAT
 26701 TAGTCACTTA TCAGATATGT GATTTGCAAA TGAGGATGGC CTTTTTATTT
 26751 TGTTGATTGT GTTCTTTGCA CAATAGTTTT TATTTTGTAT GAAATATAAT
 26801 TTTCTATTTT GTGCTTTTGG TGTTATATAT CTAAGAAATC ATGCCAAATT
 26851 CAATGTCATG AAGGCTTTCT CCTGTTTTCT TCTAATAGTG TGTAGTTTTA
 26901 GCTCTTTTGT ACGTGGTGTT GGGTAAGGGT TCAACTTCAT CCTTTTGCAT
 26951 GGGAAATATCC AGTTTTTTTC CCAGCTGCAT TTGTCAAAAA GACTCTTCTT
 27001 TCTTCCGTTG AATGATCTCA GTGGAAGTCA CTGATCTCAT CAAAAATCAC
 27051 TGACCATATG TGGGAGCATA ACCACCTGAT GGGTCTTCTT TGCCTGCTGC
 27101 CCAATATAG CTGGTTTATC AAGATGGGAA TTGCAATAGA GAAAGAGCTT
 27151 TACACATGTA CAGCTGGCTA AATGGGAGAC TGGAGCTTTA TTATTAATA
 27201 AATAAGCCTC CCCCAAAATT TGGATGCTAG GGTTTTCTCT TTTTTTTTCT
 27251 TTTTTTATTA TTATACTTTA AGTTCTAGGG TACATGTGCA CAACGTGCAG
 27301 GTTTGTACATA TATGTATATA TGTGCCACGT TGGTGTGCTG CACCCATTAA
 27351 CTCATCATTT ACATTAGGTA TTCTCCTAAT GCTATCCCTT CCCCCTCCCC
 27401 CCAACCCACT ACAGGCCCCA GTGTGTGATG TTCCCCACCA TGTGTCCAAG
 27451 TGTTCTCATT GTTCAGTTCC CACCTATGAG TGAGAACATG TGGTGTGTTG
 27501 TTTTCTGTGC TTGAGATAGT TTGCTCAGAA TGATGGTTTC CAGCTTCATC
 27551 CATGTCCTTA CAAAGGACAT GAACTCACTC TTTTATATGG CTGCATAGTA
 27601 TTCCATGGTG CATATGTGCC ACATTTTCTT AATCCAATCT GTCATTGATG
 27651 GACATTTGGG TTGGTTCCAA GTCTTTGCTA TTGTGAATAG TGCCGCAATA
 27701 AACATACGTG TGCATGTGTC TTTATAATAG CATGATTTAT AATCCTTTGG
 27751 GTATATAACC AGTAATGGGA TGGCTGGGTC AAATGGTATT TCTAGTTCTA
 27801 GATCCTTGAG GAATCACCAC ACTGTCTTCC ACATGGTTGA ACGAGTTTAC
 27851 ACTCCCACCA ACAGTGTAAG AGTGTTCCCTA TTTCTCCCAT CCTCTCCAGC
 27901 ACCTGTTGTT TCCTGACTTT TTAATGATCG CCATTCTAAC TGGTGTGAGA
 27951 TGGTATCTCA TTGTGGTTTT GATTGTGATT TCTCTGATGG CCGGTGATGA
 28001 TGAGCATTTT TTTCGTGTGC TGTGGGCTGC ATGCTTTTTG AGAAGTGTCT
 28051 GTTCATATCC TTCGCCCACT TTTTGATGGG GTTGTGTTGAT TTTTCTTGT
 28101 AAATTTGTTT AAGTTCTTTG TAGATTCTGG ATATTAGCCC TTTGTCAGAT
 28151 GGGTAGATTG CAAAAATATT CTCCCATTCT GTGGGTGCC TATTCATCT
 28201 GATGGTAGTT TCTTTTGCTG TGCAGAAGCT CTTTAGTTTA ATTAGATGCC
 28251 ATTTGTCAAT TTTGACTTTT GTTGCCATTG CTTTGGTGT TTTAGTCATG
 28301 AAGTCCTTGC CTATGCCTAT GACCTGAATG GTATAGCCTA CGTTTTCTTC

FIGURE 3I

28351 TAGGGTCTT ATGGTTTTAG GTCTTACATT TAAGTCTTTA ATCCATCTTG
 28401 AATTAATTTT TGTATAAGGT GTAAGGAAGG GATCCAGTTT CATCTTTCTA
 28451 CATATGGTTA GCCAGTTTTC CCAGCACCAT TTATTAAGTA GGAATCTTT
 28501 TCCCCATTTT TTGTTTTTGT CAGGTTTGTC AAAGATCAGA TGGTTGTAGA
 28551 TGTGTGGTAT TATTTCTGAG GGCTCTGTTC TGTGCCATTG GTCTATATCT
 28601 CTGTTTTAGT ATCAGTACCA TGCTATTTGG TTACTGTAGC CTTATAATAT
 28651 AATTTGAAGT CAGGTAGCAA GATGCCTCCA GCTTTGATCT TTTTGCTTAG
 28701 GATTGTCTTG GCAATGTGGG CTCTTTTTTG GTTCCATATG AACTTTAAAG
 28751 TAGTTTTTTC CAATTATGTG AAGAAAGTCA TTGGTAGCTC AATGGGGATG
 28801 GCAGTTAATC TATAAATTAC CTTGGGCAGT ATGGCCATTT TCACAATACT
 28851 GATTCTTCCT ATCCATAAGC ATGGAATGTT CTTCCATTTG TTTGTCCTCT
 28901 TTTATTTTCT TGAGCAGTGG TTTGTAGTTC TCCTTGAAGA GGTCTTCAC
 28951 ATCCCTTGTA AGTTGGATTC CTGGGTGTTT TATTCTCTTT GAAGCAATTG
 29001 TGAATGGGAG TTCACCTCATG ATTTGTCTCT CTGTCTGTTT TTGTGTATA
 29051 GGAAAGCTTG TGATTTTGCA CATTGATTTT GTATCCTGAG ACTTTGCTGA
 29101 AGTTGCTTAT CAGCTTAAGG AGATTTTGGG CTGAGACGAT GGGGTTTTCT
 29151 AAATATACAG TACATGCATC TGCAAACAGA GACAATTTGA CTTCTGTTT
 29201 TCGTGATTGA ATAGCTTTTA TTTCTTTTTT TAAATATATA TTTTATTAT
 29251 ACTTTAAGTT CTAGGGTACA TGTGCACAAT GTGCAGGTTT TTACATATGT
 29301 ATACATGTGC CATGTTGGTG TGCTGCACCC ATTAACCTCGT CATTACATT
 29351 AGGTATATCT CTAATGCTA TCCCCTCCCC CTCTCCCTAC CCTGGTGTGT
 29401 GAAGTTCCCC TTCCTGTGTC CAAGTGTTCCT CATTGTTCAA TTCCACCTA
 29451 TGAGTGAGAA CATGCGGTGT TTGGTTTTTT GTCTTGCAG TAGTTTGCTG
 29501 AGAATGATGG TTTCCAGCTT CATCCATGTC CCTACAAAGG ACATGAACTC
 29551 ATCCTTTTTT ATGGCTGCAT AGTATTCCAT GGTGTATATG TGCCATGTTT
 29601 TCTTAATCCA GTCTATCATT GTTGGACATT TGGTTTGGTT CCAAGTCTTT
 29651 GCTATTGTGA ATAGTGCCTC AATAAACATA CATGTGCATG TGTCTTTATA
 29701 ACAGCATGAT TTATAATCCT TTGGGTATAT ACCCAGTAAT GGGATGGCTG
 29751 GGTCAAATGG TATTTCTAGT TCTAGATCCC TGAGGAATCA CCACACTGTT
 29801 TTATTTCTTT CTCCTGCCTG CCAGCTCCTC CTGGTACCTC TGATAGAATT
 29851 CAGCTGTGAA TATGTCGGT CTGTGGCTTT TCTTGCTTGG TACACTATTA
 29901 ATTATTGCCT CAATTCAGA GCCTGTTATT GGTCTATTCA GGGATTCAAC
 29951 TTCTTCTGG TTTAGTCTTG GGAGGTGTA TGTGTCCAGG AATTTTCTA
 30001 TTTCTTCTAG ATTTTCTAAT TTATTTGTGT AGAAGTGTTT ATAGTATTCT
 30051 CTGATGGTAG TTTGTATTTT CGTGGGATTG GTGGTGATAC CCCCTTTATC
 30101 ATTCTTATTA CATCTATTTG ATTCTTCTCT CTTTCTTCC TTATTAGTCT
 30151 GCTAGTGGTC TCTCAATTTT GTTGATCTTT TCAAAAAACC AATTCCTAGA
 30201 TTCATTGATT TTTTGAAGTT TTTTTTTTTG TGTCTCTGTC GCCTTCAGTT
 30251 CTGGTCTGAT CTTAGTTATT TCTTGCCTTC TGCTAGCTTT TGAATGTGTT
 30301 TGCTCTGGCT TCTCCAGTTC TTTTAAATGT GATGTTAGGG TGTGATTTT
 30351 CAGTCTTTCC TGCTTTCTCT TGTGGGCATT TAGTGCTATA AATTTCCCTC
 30401 TACACACTGC TTTGAATGTG TCCCAGAGAT TCTGGTATGT TGTGTCTTG
 30451 TTCTCGTGG TTTCAAAGAA CATCTTATT TCTGCCCTCA TTTCAATTG
 30501 TACCCAGTAG TCATTCAGGA GCAGGTTGTT CAGTTTCCAT GTAGTTGTGC
 30551 AGTTTTGAAT GAGTTTCTTA ATTCTGAGTT CCAATTTGAT TGCACTATGG
 30601 TCTGAGAGAG TTTGTTGTGA TTTCTGTCT TTTACATTTG CTGAGGAGTG
 30651 CTTACTTCC AACTAAGTGG TTAATTTTGG AGTAAGTGCA ATGTGGTGCT
 30701 GAGAAGAAAG TATATTCTGT TAATTTTGGG TGGAGAGTTC TGTATGTGTC
 30751 TATTAAGTCC ACTTGGTGCA GAGCTGAGTT CAAGTCCTGG ATATCCTTGT
 30801 TAACCTTCTG TCTCATTGAT CTAATATTGA CAGTGGAGTG TTAAGGTCTC
 30851 CCATTATTGT CTCCCATAT TATTGTTTGG GAGTCTAAGT CTCTTTGTAG
 30901 GTTTCTAAGG ACTCGCTTTA TGGATCTGGG TGCTCCTGTA TTGGGTGCAT
 30951 ATATATTTAG GATAGTTAGC TCTTGTGTGT GAATTGATCC CTTTACCATT
 31001 ATGTTAACGG CCTTCTTTGT CTCTTTTGAT CTTTGTGGT TTAAAGTCTG
 31051 TTTTAGCAGA GACTAGGATA GCAACCCCG GTTTTTTTG TTTCCATTG
 31101 CTTGGTAGAT CTTCTCCAT CCCTTATTT TGAGCCTATG TGTGTCTCTG
 31151 CATGTGAGAT GGGTCTCCTG AATACAGCAC ACTGATGGGT CTTGACTCTT
 31201 TATCCAATTT GCCAGTCTGT GTCTTTTAAT TGGGGCTTTT AGCCCATTTA
 31251 CATTGAAGGT TAATATTGTT ATGTGTGAAT TTGATCCTGT CATCATGATG
 31301 TTAGCTGTT ATTTTGCTCA TTAGTTGATG CAGTTTCTTC ATAGCATCGA
 31351 TGGTCTTTAC AATTTGGCCT ATTTTTCAG TGGCTGGTAC TGGTTGTTCC
 31401 TTTCCATGTT TAGTTCTTCC TTCAGGAGCT CTTGTAAGGC AGGCCTGGTG
 31451 GTGACAAAAT CTCTCAGCAT TTGCTTGTCT GTAAAGGATT TTATTCTCTC

FIGURE 3J

31501 TTCACCTATG AAGCTTAGTT TGGCTGGATA TGAAATTCTG GGTTAAAAAT
31551 TCTTTTCTTT AAGCATGTTG AATATCGGCC CCCTCTCTCT TCTGGCTTGT
31601 AGTGTTTCTG CTGAGAGATC TGCTGTTAGT CTGATGGGCT TCCCTTGTG
31651 GGTAACCCGA CTTTCTCTC TGGCTGCCCT TACCATTTTT TCCTTCATTT
31701 CAACCTTGGT GAATCTGACA ATTATGTGTC TTGGGATTCC CCTTCTGGAG
31751 GAGTATCTTT GTGGCGTCTC GTGTATTTC TGAATTGAA TGTTGGCCTG
31801 CCTTGCTAGG TTGGGGAAGT TCTCCTGCAT AATATCCTGA AGAGTGTTTT
31851 CCAACTTGGT TCCATTCTCC CCGTCACTTT CAGGTACACC AATGAAACGT
31901 AGATTTGGTC TTTTCACATA GTCCCATATT TCTTGAGAC TTTGTTTATT
31951 TCTTTTCTCT CTTTGTCTC TAAACTTCTC TTCTCACTTC ATTTCAATTCA
32001 TTTGATCTTC AATCTCTGAT ACCCTTCTT CCAGTTGATC GAGTCAGCTA
32051 CTGAAGCTTG TGCATTCTGC ACGTATTTC CATGCCATGG TTTTCAGCTC
32101 CATCAGGTCA TTTAAGATCT TCTCTATGCT GGTATTGGA ATTAGCCATT
32151 TGTCTAATCG TTTTCCAGG TTTTGTAGCT CTTTGAGATG GGTTGGAACA
32201 CCCTCCTTTA GCTCGGAGAA GTTTGGTATT ACCAATCTTC TGAAGCCTAC
32251 TTCTGTCAAC TCATTAAAGT CATTCTCCAT CCAGCTTCT TCCTTGTCTG
32301 GCGAGGAGCT GCGATCCTTT GGAGAAGAGT CGCTCTGATT TTTAAAATTT
32351 TTGGCTTTTC TACTCTGTTT TCTCCGCATC TTTGTGGTTT TATCAAACTT
32401 TGGTCTTGA TGATGGTGAC CTACAGATGG GGTTTTGGTG TGGATGTCCT
32451 TTTTGTGAT GTTGATGCTA GTTTTGTGA TGCTTGTGA GTTTTCCTTC
32501 TAACATTGAG GACCTCAGC TGCAGGTCTT TTGGAGTTG CTGGAGGTCT
32551 ACTCCAGACG CTGTTTGCCCT GGGTGTCCAC AGCAGAGGCT GCAGAACAC
32601 AAATATTGCA GAACGGCAAA TGTTGCTGCC TGATCCTTC TCTGGAACCT
32651 TCATCTCAGA GGGGCACCTG GCTGTATGAC GTGTGAGTCG GCCCCTACTG
32701 GGAGGTGTCT CCCACTGGGC TACTCAGGGG TCAGGGACCC ACTTGAGGAG
32751 GCAGTCTGTC CATTCCCAGA TCTCAGACTC TGTGCTGGA GGACCACTGC
32801 TCTCTTCAAA GCTGTGAGAC AGGGACGTTT AAGTCTGCAG GTTCTGCTG
32851 CCTTTTGTGA AGTTATGCCC TGCCCCAGA AGTGGAGTCT ACAGAGGCAG
32901 GCAGGCTGTT TTAGGCTCTG GTGGGCTCCA CCCAGTTTGA GCTTCTGGC
32951 CGTTTCTGTT ACCTAGTCAA GCCTCAGCAA TGGCAGACGC CCCTCCCCCA
33001 GTCTTGGGGC CGTCTGTCAG TTTGATCTCG GACTGCTGTG CTAGCAGTAA
33051 GCAAGGCTCC ATAGGTGTGG GAACCGCCGA GCCAGGCACG GGTTATAATC
33101 TCCTGGTGTG CCGTTTGCTA AGACCATGG AAAAGCGCAG TATTAGGGCG
33151 GGAGTGTCCT GAGTTTCCAG GTACCATCTG TCACGCTTC CCTTGGCTAG
33201 GAAAGGGAAT TCCCTGACCC CTTGTGCTTC CAGGGTGAGG TGATGCCCCG
33251 CCCTACTTTG GCTCACACTC CATGGCCTGC ACCCACTGTC CAACAAGTCC
33301 CAGTAAGATG AACCCAGTAC CTTAGTTGGA AATGCAGAAA TCTCTGTCT
33351 TCTGCGTCAC TCACGCAGAT GCATGAGCTG TAGACTAGAG CTGTTCTCT
33401 TCGGCCATCT TGTAACGATC CTGCTAGGGT TTTTCAAGG ATAGTTTGGC
33451 AGGGAGAGAG ATGACAAAGG AATGAGTGCT GCTGATTGGT TGGCGGTGCA
33501 ATCACAGAGG TGTGGGAAAT GATCCTTATG CTGAGTCCAC TTCTGGGCGA
33551 AGGCGCAGG ACTGGTTGGC AGGTCAAGTG GTGCCATCTG GTTGTGAGAA
33601 TTGCAAAAGC CTGAAAAGAC ATCTCAAAAG GCCAACCTCA GGATCTATAA
33651 TAGTGATATT ACCTGCAGGA GTAATTGAGG AAGTTGCGAA TCTGTGATT
33701 TGCAGAAATA TGACTGGTAA TTGTTTACAT CTATGTCTTA GTAGAATTGA
33751 GGCTCCTCTC ATTCTCCCAT TCTGGTGGTC TTTTATTAGT TTTACGAAAG
33801 TAGTTTAGTT TGGGGGAAGG GCTATTATCA TTTAACTAC AAACATAATT
33851 TCTTCCAAAG TTAGCTTGAC CCAATCCCAG GAATGACTAA GGGCATTTGG
33901 AGGGTAAAGG CAAGATGCAG GCTGGTTGGA TCAGATCTCC TTCCTGTCTA
33951 TAATTTTCTC ACTGTTTAA GTTTTGCAAG GGTGGTTGCA TAGGGTTTAT
34001 TTCTGGGCTC TCTATTCTAG TCCATTGGTC TATATTCTG TCTTTATGCC
34051 AGTACCACAT TGCTTTGATT AATGTAGCTT TGTATAAGT TTTGAAATTG
34101 GAAAGTGTGA CTTACTTATT CTTTCAAGA TTCTTTGGC TATTAGGGT
34151 GCCTTGAGAT TCCATGTGAA TTTTAAGATG TATTATTATT CTGTTACTGC
34201 AAAAAACATC ATTGGGATTT TGATAGAGAT TGCATTGACT CTGTAGATCT
34251 TCTTTAGTAG TTTTGACATT TAGCAATATT AACTCTTCCA ATCCATAAAT
34301 ATGGAATTTT GTTCCATTTA TCTTTGTGGT CTTTAATTTT TTTACCAAGT
34351 GTTTCATAGT TTTTAGTGTA TATGGTTTTT GCCTCCTTGG TTAAGTTTAT
34401 TTATGATTTT TTATGCTGGT AGGTTTTATT TTTTAAATTT TGGGGGAAGT
34451 GTTTTATTA TACAAATGTA TGGGTTACAA GTGCAATTTT GTTACATGTA
34501 TAGATTGTAT AGTGGTGATG TCAGGACTTT TATGGTATCC ATCACTCAAA
34551 TAACTTCCAT TGTACCCATT AAGTACACCC CACTCCCACC TGTTAAGTTT
34601 TAATAAGTTG GTTTAGTCTC TGTTCTGTCT CTGAAAAATG TCAGATACTA

FIGURE 3K

34651 CTAACAGAAC TAAAAAATCC AGGACTGAGA GAAACTTTAA GTACATACAA
34701 CAATATAAAC AGATCTTAAA AATATGATAC AGCATAGAAA AATGGAAACC
34751 AAACATATTC CACAAATGTCA TTCAGTACTT TTAAATTACT ACACAGAAAG
34801 TGTATACAT TTCACAAAAA TGTATAAGAA TAGCACACAC AAATTATCAA
34851 CAAAATAATA CAGGGTTTTT TGAATTGTCT ACCTGTGAGA TGTCTTAAG
34901 CAGGGTTTTA TTATTGATTG ATTGATTGAG ACAGGGTCTG ACTCTGTCGC
34951 CCAGATTGGA GTACAGTGGT GCAATCCTGG CTTGACCTCC TGGCTCAAGT
35001 AATCCTTCCA CCTCAGCATC CCAAGCAGCT GGGACTATAG GTTCACACAA
35051 CCATGCCTGG CTACTTCTTT AAAAAAATTT TTGTAGAGAG TCTACTACA
35101 CTGCTCAGGT GGTCTCAAGC TCTTGGGCTC AAGCAATTCT GACACCTCAG
35151 CCTCCCAAAG TGCAGGGATT ACGGGTGTGA GCCGTTGCAC CTGGACTAAG
35201 CAGGGTTTTA AGTGACTTGG TTCTTGTTTA TGTGACACT AAACATGCAT
35251 CAAAGATTAA CCTTCTAAAT TCTGGAACAC AGAAAGAAGG GCAGCCCTTA
35301 TTTCAGGGCT GGGCTGATGA TAGAATTTAC TTGATGCAGT TTTTCATAGA
35351 AAGATATGTG TCTTTTGTGTT TTAACATAT AAGAAAAGAG TTTCCACTGT
35401 TTACCTGGTA CTAGTCCCA ATGTCTAAAC CAAGTTTGGA GAATCACATC
35451 CTCTGAGCAG CCTATGTTGA TGATGATGCT GATGACAATG ATGACAGAAG
35501 ACACCTATAT GGTACTTATT TATGTAGCAG AACCATAGTC CTTTATATGT
35551 TTTAACTCAT TTAATATTCA AAACAACCCT ATGACATGGT ACATTGATGT
35601 TGTTATACCC ATTTATATGT GTGGAAATGG TCATACAGTG TCTTATTAAT
35651 TTGCCCTGAGG CCACACAGCT AATTAGTGGT GGATCTGAGG TTGGATTTCT
35701 AGGAGCCGA TTCACAAATC CAACACTGCA CTTTGCTTTT TCTCTATTGT
35751 CTATCGCTCA TTGATTTTTT TATTCCTCAAT TTTATTTCTT TCCTTTATTT
35801 TTGGTTTAAT TTTCTCTTCT TTTTGTAGTT TCTTGAGATG AAAACTTAGA
35851 TCTTTGATTT TTCTACCTCT CTTCTTTTCA ATATTTATTA TGCTTAAAGC
35901 TTTACACTTC ACCCTAGGCA TTGTTTTTGT TGCACTCCAC ATATTTTGAT
35951 GCTGTATTTT TATATTCAGA ATATTTTCTA ATTTATATTT ATTTGTTTCT
36001 TTTAAAAATA ATTTTACTAA ATAATATAAA ATGCTAATTT TGAATACTT
36051 AGGATTTTCT TACATTTGGT TTTGATTTCT AATTTAATTC TATGTGGTTT
36101 TAAAATATAG TTTCACTCAA TTGAAATTTA TTGATTTACT TTATATTCCT
36151 GCATATGGTT GATACTGGTG CATGTTGCAT GTACACTTAA ATAACATTTA
36201 TTCTGCGATT GTTGGATACA GTGTTCTATA TTTGTCAATT AGATTGAGTG
36251 CTGCTCAGAT GTTCTATATT CCTACAGATA TTTTATGTGC TTATCTATA
36301 AAATACAAAT TGTTAATGTT TCTGATTAGG ACTAGAAGAC TTTTCTTTTA
36351 CCTTTTAAAT ATATTTTTTA TTTTATGTAT TTTGAAACTA TGTTATTTGG
36401 TGCCTATACA CTTAGATTTT TTTCTTGAGG AATTGATCCT TTATCATTAT
36451 GAAATATCCT TCAGGCACCC CGCTCCACA GATGTATGCA TCTTGCTGTA
36501 CCCCTGCTTC TGCTGGCACA AATGCACAGG CATGGATCCT GCTGCCACCA
36551 CTTTGATGAA GTGTGTGGCC AGCACCCCA TCAGAGTACT GTTACCAGCA
36601 TACTGGGAAT ACCTTGCCCC CAGAGTGACAG CAGCTTTCTA ACCTCTATGG
36651 GGCAGAGAAC AAAGTTGGGG GGCCAGTAC CAGCCCATCA GCCTTACATC
36701 ACATAGCCCA TGAGTGATGA GCTGAGCCTT GGTGCCCTGA AAGCATCCAG
36751 AATGAAGCCA CTCAACTGAA CCGACATTAT ACCACAATCA AACCTCAAG
36801 AATATCAAAG AATATAAAAG TAAAAAGCCC TATCCAAAGG ATAGCAACTT
36851 CAAAGATTAA AGGAATGTCA GCCCACACAG ATGAGAAAGA ATCAATGCAA
36901 GAACTCTGGC AATTCAAAAA ACTAGAGTGC CTTCTTACCT CCAGACAACC
36951 CCACTGGTTC CCTAGCAATG GTTCTTAACA AAACGTAAAT GACAGAGATA
37001 GAATTGAGAA TCTGGATAGA AAAAAGATCA TTGAGATTCA GGAGAAAGTT
37051 GAAACCCAAT CCAAGGAATC TAAGGAATCC AATAAAACAA TACAAGAGAT
37101 GAAACGAAAT AGCCATTTTA AGAAAGAACC AAACGTAACT GATAGAGCTG
37151 AAAAATCTAC TACAAGAATT TCATAATGCA ATCACAAGCA TTGTTAACAT
37201 CAGAATAGAC TACTAACATC AGAATAGACC AAGCTGAGGA AAGAATCTCA
37251 GAGCTTGAAG ACTGGTTCCT CAAATCAACT CAGACAAAAA TAATGAACAA
37301 ATAATTAAAA AGAGTGAACA AAACCACTGA GAAATATGAG ATTAGGTAGA
37351 GACCAAACTCT GTGACTCATT GACATCCCTG AAAGAGAGAG AGAAAAAGCA
37401 ATTTTTCGAG CTTTGTCTAG GAGGCCAAAA TTCAAATTCA GGAAATGCAG
37451 AAAACCCCTG TGAGATACTA TACAAGACAA CCATCCCCAA GACATGTAGG
37501 CATCAGATTC TCCAACGTCA ACATCAAAGA AAAAATACTA AGGCAGCTAG
37551 AGAAAAGGGG CAGGTACCTT ACAAAGGGAT TCCGATGAGG CTAACAGAAG
37601 ACCTTTCAGC AAAAGCACTA CAAGCCAGGA GAGATTTGGA GACCTATGTT
37651 CAGCAAAAAA AATTCCAACC AAGTATTTCC TGTGCAGCAA GACTAAGCTT
37701 AATAAGCAAA GGAGAAACAA GATCCTTTTC AGACAAGCAA ATGCTAAGAG
37751 AATTCAATTAC CACCAGACAT GCCTTACAAG AGGTCTTAA GTGAGTGCCA

FIGURE 3L

37801 AATATGGAAA CAAAGACTG TTA CTGGCCA CCACAAAAAT ATACTTAAGG
37851 ACTAGACCTC TGAACACTAT AAAGCAATTA CGCTATCAAG TCTGCATAAT
37901 ATCCAGCTGA CATCATGATG ACAGGATCAA ATCAACACAT ATAAGTATTA
37951 TCCTTAAAAAG TAAACATGCA AAATGCCTGA CTTAAAAAGT ACAGAATGGC
38001 AAATTTGATA AAGAAATAAG ACACATGGAG AGTTGCTCCA AATGGCAGGA
38051 TAGGAACAGT TCTGGTCTAC AGCTCCAGC AAGATCAATG CAGAAGACAG
38101 GTAATTTCTG CATTTCCAAC TGAGGTACCT GGTTTCATCTC ATTGGGATTG
38151 GTTGGACAGT GGGTGCAGCC CATGGAGGGC AAGCCGAAGC AGGGCGGTGC
38201 ATCCCTCACC GAGGAAGTGC AAGGGGTCAG GGGATTTCCT TTTCTATCC
38251 AAGGGAAGCC ATGAGTGA CTACCTAGAG GAAAAGTACA CTCCTGCTCA
38301 AATACTGCAC TTTTCCCACG GTATTGCGAA CAGGCAGACC GGAAGATTCC
38351 CTCCCATGCC TGCTCGGTGG GTCCCACGCT CATGGTGCCT TGCTCACTGC
38401 TAGCACAGCA GTCTGAGATC GACCTGGGAT GCTGGAGCTT GGTGGGTGGG
38451 GAGCGGCGTC CACCATTGCT GAGGCTTGAG TAAGCGGTTT TATGCTCACA
38501 GCGTAAACAA AGCAGCAGGG AAGCTTGAAC TGCACGGAGC CCACTGCAGC
38551 TCAGCAAGGC CTACTGCCTC TGTAGATTCT ACCTCGGGG CAGGGCATAT
38601 CTGAAAAAAA TGCCCGAGAC AGCTTCTGCA GACTTAAACA TCCCTGCTG
38651 ACAGCTCTGA AGAAAGCAGT GGTTCTCCCA GCACGGGGG GTTCAAGCTC
38701 TGATAACGGA CAGACTACCT CCTCAAGTGG GTCCCTGACC CCTGTGTAGC
38751 CTGATTGGGG GATACCTCCC AGTAGGGGCC AACAGACATC TCATACAGGC
38801 GGGTGCCCCCT CTAGGACGAA GCTTCCAGAG GAAGGATCAG GCAGCAATAT
38851 CTGCTGTCTT GCAGCTTCCA TTGGTGATAC CGAGGCAAAC GGTCTGGAGT
38901 GGAACCTCCAG AGGAAGCTAA CAACTCCA CAGACTGCA GCTGAGGGGA CTGTCTGTTA
38951 GAAGGAAAAAC TAACAAAGAG GAATAGCATC AACATCAGCA AAAAGGACAT
39001 CCACACGAAA ACCCATCCG TAGGTCACCA ACATCAAAGA CCAAAGGTAG
39051 ATAAACCAC AAAGATGGGG AGAAACCAGA GAAGAAAGGC TGAATTTCC
39101 AAAACCAGAA CGCTTTCTT CTCCAAGGAT CACAACTCCT CGCCAGCAAG
39151 GGAACAAAAAC TGGACAGAGA ATGAATTTGA TGAGTTGACA GAAGTAGGCT
39201 TCAGAAGGTC GGTAAATAACA AACTTCTCCA AGCTAAAGGA GCATGTTCTA
39251 ACCAATCGCG AGGAAGCTAA AAACCTGAA AAAATGCTAG ATGAATGGCT
39301 AACTAGAATA CAATAACCAG TGTAGAGAAG AATATAAATG ACATGATAGA
39351 GCTTAAACC ATAGTACAAG AACTTTATGA AACATACACA AGCTTCAATA
39401 GCTGATTCAA TCAAGCGAAA GAAAGGATAT CAGTGATTGA AGATCAAATT
39451 AATGAAATAA AGCAAGAAGA CAAGATTAGA GAAAAAGAG TGAAGAGAA
39501 CGAATAAAGC CTCCAAGAAA TACGGGACTA TGTGAAAAGA CCAAATCTAC
39551 GTTTGATTGG TGTACCTGAA AGTGACAGGG AGAATGGAAC CAGGTTATAA
39601 AACACTTTCA GGATTTATG CAGGAGAACT TCCCCAACCT AGCAAGGCAG
39651 GCCAACATTC AAATTCAGGA AAGACAGAGA ACACCACAAA GATACTCCTC
39701 GAGAAGAGCA ACCCAAGAC ACATAATTGT CAGATTCACC AAGGTTGAAA
39751 TGAAGGAAAA AATGTTAAGG GCAGCCAGAG AGAAAGGTCG GGTACCCAC
39801 AAAGGGAAGC CCATCAGACT AACAGCAGAT CTCTCAGCAG AAACACTACA
39851 AGCCAGAAA GAGAGGGGGC CGATATTCAA CATGCTTAAA GAAAAGAATT
39901 TTTAACCAG AATTTATAT CCAGCCAAAC TAAGCTTCAT AAGTGAAGGA
39951 GAAATAAAAT CCTTTACAGA CAAGCAAATG CTGAGAGATT TTGTACCAC
40001 CAGGCTGCC TTACAAAAGC TCCTGAAGGA AGAACTAAAC ATGGAAAGGA
40051 ACAACCGGTA CCAGCCACTA CAAAAACATG ACAAATTGTA AAGACCATCG
40101 ATGCTATGAA GAACTGCAT CAATTGATGG GCAAAATAAC CAGCTAACAT
40151 CATAATGACA GGATCAAATT CACACATAAC AATATTAACC TTCAATGTAA
40201 GTGGGCTAAA TGCCCCAATT AAAAGACACA GACTGGCAA TTGGATAAAG
40251 AGTCAAGACC CTTGACTGTA TTCAGGAGAC CTATCTCACA TGCAAAGACA
40301 CACATAGGCT CAAATAAAGT GATGGAAGAA GATCTACCAA GCAAATGGAA
40351 AGCAAAAAA AGGGTTTGCC ATCCTGGTCT CTGATGAAAC AGACTTTAAA
40401 GCAACAAAGA TCAAAAGAGA CAAAGAAGGC CGTTAACATA ATGGTAAAGG
40451 GATCAATTCA ACAAGAAGAG CTAACATATC TAAATATATA TGCACCCAAT
40501 ACAGGAGCAC CCAGATTCAT AAAGCAAGTT CTTAGAGACT AAGTCTACAA
40551 AGAGACTTAG ACTCCACAC AATAATAATG GGAGACTTTA ACACCCCACT
40601 GTCAATATTA GTGGATCAA CGAGACAGAA AGTTAAACAAG GATATCCAGG
40651 ACTTGAACTC AGCTCTAGAG CAAGCAGAAC TAATAGACAT CTACAGAACT
40701 CTTCTTCCCA AATCAACAGA ATATACATTC TCCTCAGCCC CACATCACAC
40751 TTATTCTAAA ATTGACCACA TAATTGGAAG CAAAACACTG CTAGCAAAAT
40801 ATAAAGAAC AGAAATTACA TCAACTGTC TCTCAGACCG CAATGCAATC
40851 AAATTAGAAC TCAGGATTAA GAACTCACT CAAACTGCA CAACTGCATG
40901 GAACTGAAC AACCTGCTCC TGAATGACTA CTGGGTAAAT AACGAAATGA

FIGURE 3M

40951 AGGCATAAAT AACAAATGTTT TGTGAAGCCA ATAAGAACAA AGATACAACG
 41001 TTCAAGAATC TCTGAGAAAC ATTTAAAGCA GTGTGTAGAG AGAAATTTAC
 41051 AGCACTAAGT GTCCACAGGA GAAAACAGGA AAGATCTAAA ATCGACACCC
 41101 TAACATTGCA ATTATAAAAG AACTACAGAA GCAAGAGCAA ATGAATTCAA
 41151 AAGCTAGCAG AAGACAAGAA ATAAATCAGA GCAGAACTAA AGGAGAGAGA
 41201 GACACAAAAA ACCCTTAAAA AAAATCAATG AACCCAGGAG CTGGTTTCT
 41251 GAAAAGAGCA ACAAATAAT TACATGACAA GCAAGACTAA TAAGGAAGAA
 41301 AAGAGAGAAG AATCAAATAG ACGCAATAAA AAATGATAAA GGGGATATCA
 41351 CCACCGATCC CACGGAAATA CAACTATCA TCAGACAATA CTATAAACAC
 41401 CTCTACGCAA ATAAAATAGA AAATCTAGAA GAAATGGAAA AATTCCTTGA
 41451 CACATACACC CTCCAAGAC TAAACCAGGA AGAAGTTGAA TCTCTAAATA
 41501 GTTCAGTGAC AGCTTCTGAA ATTGAGGCAA TAATTAATAG CCAACCAACC
 41551 AAAAAAGTC CAGGACCAGA CAGACTCACA GCCAAATTCT ACCAGGGGCA
 41601 CAAAGAGGAG CTAGTACCAT TCCTTCTGAA ACTATTCCAA TCAATAGAAA
 41651 AAGAGGGAAT CTTCCTAAC TCATTTTATA AGGCCAACAT CATCCTGATA
 41701 ACAAAGCCTC ACAGAGACAC AACAAAAAAA GATAATTTTA GGCCAACATC
 41751 CCTGATGAAC ATCGATATGA AAATTTTCAA AAAAAAATAC TGGCAAAACCG
 41801 AATCCAGCAG CCCATCAAAA AGCTTATCCA CTACGATCAA GTCGACTTCA
 41851 TCCCTGGGAT GGAAGGCTGG TTCAACATAG GCAATCAAT AAATGTAATC
 41901 CATCACATAA ACAGAACCAA CGACAAAAAC CACATGATTA TCTCAATACA
 41951 TGCAGCAAAG GCCTTCAACA AAATCAACA GCCTTTCATG CTAAAAACTC
 42001 TCAATAAACT AGGTATTGAT AGAATGTATC TCAAAACAGT AAGAGTTATT
 42051 TATGACACAC CCACAGCCAA TATACTGAAT GGGCAAAAAC TGGGAAGCATT
 42101 CCCTTTGAAA ACTGACACAA GACAAGGATG CTCTCTCTCA CCACTCCTAT
 42151 TCAACATCGT GTTGAAGTT CTGGCCAGGG CAATAAGGCA AGAGAAATAA
 42201 ATAAATGGTA TTCAATTAGG AAAAGAGGAA GTCAAATAGT CTGTTGTAG
 42251 ATGACATGAT TATATATGTA GAAAACCTCA TCGTCTCAGC TCCAAATCTC
 42301 CTTAAGCTGA TAAACAACTT CAGCAAAGTA TCAGGATACA AAATCAATGT
 42351 ACAAATAATC AAGCATTTCC TATCCACCAA GAACAGACAA ACAGAGAGCC
 42401 AAATCATGAG TGAACCTCCA TTCCCAACTG CCTCAAAGAG AATAAAATAC
 42451 CTAGGAATCC AACTTACAAG GGATGTGAAG GACCTCTTCA AGGAGAACTA
 42501 CAAACCACTG CTCAATGAAA TAAAAGAGGA TACAAACAAA TGGGAAGACA
 42551 TTCCATGCTC ATGGATAGGG AGAATCACTA TCATGAAAAT GGCCATACTG
 42601 CCCAAGGTAA TTTAAAGATT CAATGCTATC CCTATCAAGC TATCACTGAC
 42651 TTCACAGAAT TGGAAAAAAA CTACTTTAAA GTCATATGG AACCAAAAAA
 42701 GAGCCACAT AGCCAAGACA ATCCTGGGCA AAAAGAACAA AGCTGGAGGC
 42751 ATCACACTAC CTGACTTCAA ACTACACTAC AAGGCTACAG TAACCAAAAC
 42801 AGCATGTTAC TGGTACCAA ACAGACATGT AGACCAACGG AATAGAACAG
 42851 AGGCCTCAGA AATAACACCA CACATCTACA ACCATCTGAT ATTTGACAAA
 42901 CCTGACAAAA ACAAATCGGG AAAGGATTCC CTATTTAATA AATGGTGCTG
 42951 GGAAAACAGG CTAGCCATAT GTAGAAAGCT GAACTGGAT CCCTTCCTTA
 43001 CACCTTATAC AAAAATTAAC TCAAGATGGA TAAAAGACTT GAATGTAATA
 43051 CCTAAAACCA TAAAACCTT ACAAACCACT CTAGGCAATA CCCTTCAGTG
 43101 CATAGGCATG GGCAAAGACT TTATGACTAA AACACCAAAA GCAGTGGCAA
 43151 CAAAAGCCAA AATTGACAAA TGGCATCTAA TTAACTAAA CAGCTTCTGC
 43201 ACAGCAAAAT AAATACCAT CAGAGTGAAT AGGCAACCTA CAGAATGGGA
 43251 GAAAAATTTT TCAATCTATC CATCTGACAA AGGGCTAATA TTCAGAATGT
 43301 ACAAAGAACC TAAACAAATT TACAAGAAAA AAAAAACCAC TGCATCAAAA
 43351 AGTGGGCAAA GGATATGAAC AGACACTTCT CAAAAGAAGA CAGTTATGCA
 43401 GCCAACAGAC ATATGAAAAA ATGTCCATCA TCACTGGTCA TCAGAGAAAT
 43451 GCAAGTCAAA ACCACAATGA GATACCATCT CATGCCAGTT AGAATGGCGA
 43501 TCATTAAAAA GCCAGGAAAC CACAGATGCT GGAGAGGATG TGGAGAAATA
 43551 GGAACACTTT TACACTGTTG GTGGGAGTGT AAATTAGTGC AACCATTGTG
 43601 GAAGACAGTG TGGCGATTCC TCAAGGATCT ACAACTATAA ATACCATTTG
 43651 ACCCAGCAAT CCCATTGTG GGTATATACC CAAAGGATTA TAAAGCATTG
 43701 TACTATAAGG ACATATGCTC ACATATGTTT ATTGCAGCAC TATTTACAAT
 43751 AGCAAAGACT TGGAAACCAAC CCAGATGTCC ATCAATAATA GACTGGATAT
 43801 ATAGTATTCT ATGTCTGGTT AAAAAAAAAG TTATTCAATT TTATGGATTT
 43851 GGATTAGGAT CATTCCTATT TCTGTAAATA TTTACACCTA TAAGGATATC
 43901 AAGAAGGAAT GTCAGGCAGT TTAAGTAACT CTTTTCAAAAG TCTTAGAAAA
 43951 GTTGCATTTT TTGCTGGCAC CAAGAGGGGA AAACATCATA AAAATAGTTT
 44001 CAAAATCTAC AATCAATGCT TTCTCCAAA TAAATGTCTT TGTTAAAAAA
 44051 AATAATAATA ATAGACTGGA TAAAGAAAA GTGGCACATA TATACCATGG

FIGURE 3N

44101 AATACTATGC AGCCATAAAA AAGGATGAGT TCATATCCTT TGTAGGTACA
44151 TGGATGAAGC TGGAAATCAT CGTTCTCAGC AACTATCAC AAGGACAGAA
44201 AACCAAACAC CGCATGTTCT CACTCATAAG TGGGAGCTGA ACTATGGGAA
44251 CACGTGGACA CAGAGAGGGG AACATCACAC ACCGGGGCCT GTGAGAGGGT
44301 GGGGGACTGG GGGAGAGGTA GTGTTAGGAG AAATACCTAA TGTAATGAC
44351 GAGTTGATGG GTGCAGCATA CCAGCATGGC ACATGTATAA CCACGTAACA
44401 AACCTGCATG TTGTGCACAT GTACCCTTGA ATTTAAAGTA TAATTTAAAA
44451 AAAGAAGAAG AAATAAGTCA CAATTGTATG CTGTCTTCAA GAGACCCATC
44501 TCATGCAGAG CTACCCATAG GCTCAAAATA AAGGTTTAAA GAAAAATCTA
44551 CCAAGTAAAT GGGAAAAGAA AACAGGAGTT ACTATTCTAA TTTAGACAA
44601 AGCAGACTTT AAAGCAACAA TGATCAAAAA AGACAAGCGC ATGACATAAT
44651 CATAAAGGGT TCAATTCAAC AAGAAGACTT AAATATCCTA AATATATGTA
44701 CCCAACACAG GAGCTTGCAG ATTCATAGAA CAAATTCTTA GAGACCTACA
44751 AAGAGACATG GATAACCACA CGGTAATATT GGGAGACTTC AGCACCCAC
44801 TAACAGTATT CAATCATCAA GGCAGAACAC TAACAAAGAT ACTTGGGACC
44851 TGAATCAGT ATTTGACTAA ATGGACCCAA CAGACATCTA CAGAACTCTG
44901 CACTCCAAAA CAACAGAATA TACATTCTTC TCATCGCCAC ATGGCAGATA
44951 CTCTAAAGTC GACCACACAA TCGGCCATAA GTCAATTCTT AGCAAATTAA
45001 AAACACAAGA ATCACAATAA CCACACTCTT GGACCATGGC GCAACAAAAG
45051 TAGAAATCAG CCCCAAGAAG ATCATTCAAA ACATACAGCT ACATGCAAAT
45101 CAAACAACCT GCTCCTGAAT GACTTTTGGG TAAACAATGA AATTAAGGCA
45151 GAAATCAAGA CATTTTTTGA AACTATTGAA AATAAAGATA AAATATACGA
45201 AAATATCTGA GACACAGCTA AAATAAAGAT AAAATATACC AAAATCTCTG
45251 CGACACAGCT AAAGCAGTAT TAAGAGGGAA GTTTATAGCA CTAACACCCC
45301 CTATCAAAAA GTTAGAAAGA TCTCAAATTA ACAGCCTAAC ATTGCACCTA
45351 GAGGAAGTAG AAAAAACAAG GCAAACCAAC TGCAAAGCTA GCAGAAGAAA
45401 AGAACCACAA CAAGAACTGA ACTGAATGAA ATTGAGACAG GAAAATGATA
45451 TAAAAGACCA GTGAAACCAG AAGCTGGTTC TTTGAAACAA TAAATAAGAT
45501 GGATAGACCA CTGATTATAC TAATCAAAAA ACAGAGCAGA TCCAAATAAA
45551 CTTAATCAGA AATGACAAAG AGGACATTAC CATCAACCCA ACAGAAATAT
45601 AAAAAACCTT AAAAGACTAT TACAAACACC TCTATGCAGA CAAACTAAAA
45651 AACCTACAAG AAACGATAAA TTCTTGAAA CATAAGTCT CCCAAGACTG
45701 AACAAGGAAG AAATTGAAAC CCTGAACAGA CCAATAACAA GTTCCAAAAT
45751 TGAATCAGTA GTAAAAAGCC TACCAACCAA AAAAGCCCTG GACCAGATGG
45801 ATCCACAACC AAATTCTGCC AGATGTATAA AGAAGAGCTG GTACCATTCC
45851 TACTGAACT ATTCCAAAA ATTAAGGAGG AGGGACCCCT CCCTAACTCA
45901 TTCTATAAGG CCAGCATCAT CCTGATATAA GGCCAGCATC ATCCTGATAT
45951 AAGGCCAGCT TCATCCTGAT AACGAAAACT GGGAGAGACA ACATAAAAAG
46001 AAAACCTCAA GTCAATATCC TGGACAAACA TAGATGCAAA AATTCTCAAT
46051 AAAATACTAG CAATCTGAAT TCAGCAGCAC ATCAAAAAAC TAATCCACCA
46101 TGATCCAAGT AGGCTTTATA CTTGGCATGT GAGATTGGTT CACCATATAC
46151 AAATCAATAA ATATGATTCA TCACATGAAC AGAACTAAAA AGAAAAACCA
46201 AATGATAATC TCAATAGATG CAGATACATC TATTGAATGC AAAATTGAGT
46251 ACCCCTTCAT GTTAGAAACC CTCAACAAAC TAGGCATCAA AGGAACATAC
46301 CTCAAAATAA TAAGAGCTAT CTGTGAAAA ATCACAGCCA GCATCATACT
46351 GAAAGAGCAA AAGCTGGAAG CATTCCCTT GTGGAATAAG ACAAGGATGC
46401 CCACTATCAC CACTCATATT CAATATACTA CTGGAAGTCC TAGGCAGAGC
46451 AGTCAAGCAA GACAAATAAA GAAAAGGCAT CCAAATAGGA AGAGAGGAAG
46501 TCAGACAATA TGATTTTATA CCTAGAAAAT TCCATAGTGT CTGCCCCAAA
46551 GCTCCTAGAT CTGACAAACA ACTTCAGCAA AGTTGCAGTG TACAAAATCA
46601 CTGTGCAAAA ATAAGTTGCA TTCCTTTACA CTAACAACAT CCAAGCTGAG
46651 AGCCAATCAA GGACACAATC CCATTCTATA TAGCCACACA AAAAAATAAA
46701 TACCTACGCA TACAGCTAAC CAGAGAGGCA AAATATTTCT AGATTGAGAA
46751 TTACAAAACA GTGCTGAAAG AAATCAGACA ACACAAACAA ACGAGAAAAC
46801 ATTCAATTCA TGCTCGTGGA TAGGAAGAAT CAATGTTGTT AAAGTGGCCA
46851 TACTGCCCAA AGCAATTTAC AGATTCAATG CTATTCCTTT CAACTACCA
46901 GTGATATTTT TCACAGAATT AGAAAAAAT ATTCTAAAT TCAGGTGGAA
46951 CCAAAAAAGA GCCTGAATAG CCAATCAAT CCTGAGCAA AAGAACAAA
47001 CTGGAGGCAT CACATTACCA AAATTCAAAC TGTAAGTCAA GCTTACAGTA
47051 ACAAAAACAG CATGTTACTT GTACAAAAAC AGACACATAA ACCAATGGAA
47101 TAGAGAGCCC AGAAATAAAG CTGTGTACTC AGAACCATCT GATCTTTGAC
47151 AAAATTGACA AAAACAAACA ATGGGGAAAG GACCTGCTAG TCAATAAGTG
47201 ATTGCGGATG GATCGCTACC CATATGCAGA AGATTAAAC TAGACCACTT

FIGURE 30

47251 CCTATCACCA TATATAAAAT CAACTCAAGG ATGTATTAAA GACTTAACTG
 47301 TAAAAACCTAT AAAACCCCTAG AGGAAAACCT AGGAAATACC ATTCTGGACA
 47351 TAGTCCCTGG CAAAGATTTC ATGATGAAGA TGCCAAAAGC AATTGCAACA
 47401 AAAAAACGGC AAGTGGGACC TAATTAAAGA TCTTCTGCAC AACAAAAAGA
 47451 AACTATCAAG AGAGTAAACA GACAACCTAT AGAATGGGAG AAAGTATTTG
 47501 TAAAGTATGC ATCTGACAAA GGTCTAATAT CCAGAATCTA TAAGGAACTT
 47551 AAACAAGTTT ACAAGAAAAA AAAATTTTTTA AAGTAGCTAA AGTAAATGAA
 47601 CAGACACTTT TCAAAAGATG ACATACATGT GACCAACAAG CATATGAAAA
 47651 AATGCCCAAC ATCATAATC ATTAGAGAAA TACAAATTAA AACCACAGTG
 47701 AGATACCATC TCACACCAGT CAGAATGGGT ATTATTAAAA AGTTATAAAA
 47751 TAGCAGATGT TGACGAGGTT ATGGAGAAAA GGAATGCCT ATACGCTGCT
 47801 GGTGGAATG TAAATTAGTT CAGCCATTGT GGAAACAGG GTGGCAATTT
 47851 CTCAAAGTAC TTAACACAGA ACTACCATT TACCAGCCA TCCACTTATT
 47901 GGGTATATGC CCAAAGGAAT AGAAATCATT CTACCATAAA GACACATGCA
 47951 CACACACGTT CATCGCAGCA CTATTACAG TAGGAAAGAC ATGGAACCAA
 48001 CTTAAATTTT CATCACTGGT AGATTGGATA AAGAAAATGT GGTACATATA
 48051 CACCATGTAA TACTACGTAA CCATAAAAAA AGAATAAGAT GATGTCCTTT
 48101 GCAGCAACAT GGATAGTGCT GGAGGTCAAT ACTCTAAGCG AACTAATGTA
 48151 GGAACAGAAA ACCAAATGCT GCATGTTCTA ACTTATAAGT GGAAGCTAAA
 48201 CATTGAGAAC ACATGGATAC AAAGAAGGGA ATAATGGACA CTGGACCTAC
 48251 TTGAGGGTGG AGGGTAGGAG GAGGATGAGG AGAGAAAAAA TGACCTAATA
 48301 TGCTTATTAC CTGGGTGATG AAAATCTGTA CACCAAACCC CCACAACATG
 48351 CAATTTATTG ATAAACAAAC TGCACATGGA CCCCTGAACC TAAAAAAG
 48401 TCTTAAAAAA AGAAGAGGGG CCGGCACAG TGGCTCACGC CTGTAATCCC
 48451 AGCACTTTGG AAGGCTGAGG CGGGTGGATC AGGAGGTCAG GAGATTGAGA
 48501 CCATCCTGGC CAACACGGTG AAACCCCATC TCTACTAAAA ATACAAAAAA
 48551 TTAGCCGGGT GTGTGGTGG GCTTTTGCAG TCCCAGCTAC TCGGGAGACT
 48601 GAGGCAGGAG AATGGCATGA ACTCGGGAGG TGGAGCTTGC AGTGAGCTGA
 48651 GATCATGCCA CTGCACTCCA GCCTGGGCAA CAAAGCAAGA CTCCGTCTCA
 48701 AAAACAAAAG AAAAAACAAA AAACAAAGAG GAGGAAGAGG AAAATAAGGC
 48751 CCATGGTGCT TAAAGTCACA CATGTGCCAA AGCCAGCTAG TAAACAAAGC
 48801 AAAGATCTGA ATTCAATAT TTGTTAACT GCTGTGGTTC TAATTATATC
 48851 ACGCACCTTG GACTCAAAGC AGGATAGAGA AGGTGGGCA GTGGATCACA
 48901 AAAGATATCA GCATAAATAC ACATCATTTA TTCTGTATTA TCTGATGCCA
 48951 AGCAGTGTGC TAAGCACTTT ACATACATCA TCTTATTTGT ACATCCCAAT
 49001 TACCTTCTGA TACAGCTGTC AATTCCCACT TTTATCAGGA AACTGAGGAT
 49051 CAAAGAGGGT AAGTAATACA TCCAGAGTTA CAAAGCTGTT AAAAAATATTA
 49101 GAGGGTCTGA CTCCAGTGTA TATATTTTTA AAAGCCCTT ATTATCTCTG
 49151 GTAATCACTG TCTTGAAAAC TACTTTGTCT GATATTAATA AAGCCACAGT
 49201 AGCTTTCATA CACCTTCTTG TTTACATATG ATTTCCCATTA TTTCTTTATC
 49251 CCATCTATGT TATTAATAATG TGTCTTGTC ATAGTATATA GTTTGTTCTT
 49301 GTTTCTTTAT TCATTTTGT TTTCTGATAC TCTTTTCCCA ATTAAGGAGG
 49351 TAATAATCTG TAAGCAAAGC CTTAATTTACA TAAACACTGC TGTGATCTTA
 49401 TACCAAATAA ACAGCCCTAG CATGTGTGTG TGTGTGTGAG AGAGAGAGAG
 49451 TGTGTGAATG TGTGTGTGTT TGGGCTTTCT GAATTAGATT TTCTTTCAAG
 49501 ATCCACCTAC ATCTTTACTT TTGGCCTAAG TAATGGTTGG TCATGTTAAC
 49551 TGTGTAATAA ATTAATCTTT TTCTGAAGCT ACAAAGAGTC CATGTCTACT
 49601 TACTGTCTCA GGAAAAGTTT TTTCAAATTT GGAAGTGTG TACCTTTTAA
 49651 AATATTTTCT GAGAGTGTGTT AATTACTTCT ATGATCTTAA AAGGTTCTCT
 49701 CCATTTTACT TTTATCCAGC TGTCACATAT TCTGAGTATG TTTTCCACCA
 49751 GGAGAACCTG AGAATTTTTT TTTCTCTTAG ATTTTGAGTA TAGAGATAAG
 49801 ATTTTATCCT GCATCCAGTT CCAACCTGTT AATATAATTC TATGCAAGTT
 49851 TCCTCTCTTG TTGTGTTTAT TTCCCTTTAT CCTATCCTT AGTCATCTAT
 49901 TCCAATGTTT ATGCTGTGCA TTATTATATT TTCAATGATC CTGTGAAAT
 49951 GTAGAGTGCT TTATGTGCAA TATTTTAAAT GTACATAAAT GGCATTATAG
 50001 ATTAACACAT TTTTTCATGT TGTACCATGT TTTTGAGGTT TATTATATT
 50051 GCTATGTATA CCTCTAGTCT ACTGCTTCTA ACTGTGAAAC ATTTTTTTCA
 50101 AATTCAAATT CTCATAAATG CTGTACTTAT TTTGGAAATT AGAATTCAGC
 50151 ACAAGGTACT TCTCTGTATT CAACACCATA GCATTTTAGC GCTTTACTAA
 50201 TGGGTGAAAA AATTAAACTT CAGTCTACT GTTCAAAGAG CCTATTTAGT
 50251 CAAAGATGGC CAAGATGGAA AGCTTCCACT TTCTGTGAG TCAGGTCCTA
 50301 GTAAATGTGA ATCTTACACA GAGATGATTA GTTATAGCTC CTAGCACTAA
 50351 CTCCCTGGAG GCAATGTCTT TGGTGCCCT GACTCTCTTC CATTTAGGCA

FIGURE 3P

50401 CTCATCTTTG TTAGATGCCT TAGGTTTATT TACGTAAAAT CATGCTGCAC
50451 TTCTCCCTGA TACTGTGGTT AAAGTTTTTA TGGCCTTGCA CCAAACCAAC
50501 AGCCCAGAAT AGCTACATGC CAGGGAGATA TTGTCAGCAA GGTTCGGGCA
50551 TTAATATGAA GAATCTTGTA TATTGTTGAA ACTTCTGGTC CAACAGAATG
50601 GAAAGTGTGC CAAATAGGAA GCTTTTGGGT ACAGGTGACA AAAACCCCAA
50651 CTCAAAGTGG CTTCAACGCT AAGCACATAT ATTATCTCAC TATATTAGCA
50701 GAATAACTAA ATATTGCGAG CTGCAGAGGC AAACCTGAC TACTGAGAGG
50751 CTTGATACAG TAAAAGCTTA TTGCTTGGTC TCACAAAGTT TGCCAGGGGT
50801 TGGTGAAGTCT CCTGGGCAGT TAGTGACTCA GATATGTGCG TTTATAAGCA
50851 ACACATGACT TGTAAGTCA CCCCTGCAAG GGAAGAGGAC TGGTGGATCA
50901 CATAGATTGT TTTTAAGGAC CAGGCTGGAA ATTGACTTAT ATGAATTTTG
50951 CCCATGCTCC AGTGTGCATA AATCCGTCAT CAGTCATATG ACCCATCCT
51001 AACTGCAAAG GATGCAGAAA CATGGAGTCT TCCTGTGAAC TTAGGAAGAG
51051 GAAAAGTGTG GAGCAAGAAG CCACATTCCA TAACAGGAAG TCCAGATATA
51101 CAGCAGGTTT TAGGGATGGA TGACTTAGTG ACTCAGTGGT GTCATCACCG
51151 TCCTGAAGTC TTTCCAATGC TCTCCACCCT GCCGTCTCA CAATGTCAGC
51201 TTTGTCTTCA GGTCTGTTCT CTTCTGGTT GCAAGGTGGC TGCTGTAGTT
51251 CAGCCATCAC AACCAGACAT GGCAATGTGC TGGGACAGAA AGGGACCATC
51301 CTTAGGAGTG AGGGCACTTT TCCCAGAAGC AGCCCAGCAC ACTTCCTCTG
51351 ATGGCCAGGA CTGCCAGGCC CAAACTAATC ACTGACAACT CAAGATTTAT
51401 CCCTGGCATT GAGAGACCAT CACCCTCTTG GCAGTCATGT GGGGAAGGG
51451 CTGGTTACCA TTTGAACCA AATGAAGCTT AGCCAATAAG GAAGAGAAGA
51501 AAGTAGATGT TGAGTAGGCA ACGAACAGTA TCTGCTATAG CCCATCCCTG
51551 GACTCGCTGA GGTTCATGG TAAAGTTTGT GGTTCATC ATGTTCTGTC
51601 ACCATTCTCA GTAAGTTGAT GCCTAGCATT GCATATTTTC TTTTGCTATT
51651 GTAATGCTGT TTCCATGATA GTTGCTTGTC TATAGGATTG TCATTGATTT
51701 TTCCTCACC TTTGTTCACT TTTCTTTTAT CTATGTGTCT GTGTAATTGC
51751 CTTAAATTCT TTTTCAAGC AGTATTAGAT GTTAATTAGA GACTGAGAAA
51801 CCCAGAGGTG GAAGGATCTT AAGTGGAGCA GGGGATCGGA TTAAAGAATA
51851 AGAAAGCAAA GAATACTGTA TTTCAATTCT GTGAAAAGAG AGGTTACATT
51901 TCCTTGCAATG AGGAAAAAGT AGGAGTGTGT GCTTTTCTCA AAACCTGCTA
51951 TAAGGCTGGG TGCAGTGGCT CATGCCCTATA ATCAGCACTT TAGGTGGCCA
52001 AGGCAGGAGG ATTGCTTGAG CCCAGGAGTT TGAGACCAGC CTGGGAAATC
52051 TAGTAAAGCC CTGTATCTAC AAAAAATAAA AAATTAGCTG AGAGTGGTGG
52101 TGCACGCCTG CAGTCCCCAG CTAGCTGGGA GGCTGAGGCA GGAGGATTGC
52151 TTGAGCCAGC GAGGAGGTCA AGCTTGCACT GAGCTGTGAT CATGCCACTG
52201 AACTCCAGTC TGGGTGACAG AGTGAGACTC TGTCTTAAAA AAAAATTGCT
52251 ATGAGAGAAT GCTCTAGGTA TGTGTGTGGT CGTGGTAGAG TATAGGGGTG
52301 TACGATCACT GTAATGTGCT GGAATAGTAC CTAATTTTGA AACTGCATGG
52351 TTAATAACAT CTTTTAAGAA TGTCTAAGTG CTTTAGAGAC TTCTTTTCCC
52401 CCATTCTCCG TGAGAAAGAT AGGAGATAGA TCGTTGGTTT TCGTGTGGAA
52451 AAATTAAGAA AGAGAAATGA AGCAGTTTAA ATTTCTCACC ATTATCATGG
52501 TATTAAGTAA ACTAGAGCAG AGGTCTTTGG GTTAGAACTC ATTTGGGAAA
52551 ATAGATTGAG TGTGGCCAAG GCAACCATTG CTGTAGTGAA CTCAGCTCCC
52601 TTTTATGTAG TGAAGATAAA TAGTTGAACA ATCCAATACA TGCCCCAGTC
52651 CCTCTCTCTC TACACACACT GCACACACAC ACACATACAC ACACACACAC
52701 ACACAGTGCC AGGAGACATT CCGGGACCAT ATTTTTTTAA GAAGAAAAAG
52751 TATTATTATG CTTTCAAGTC AGTTATGTTA ATTTATTCCT TTTTGGAGAT
52801 GTAGAGTAGC TCCTTTGTAT CTGAGTTTGC CTATTACATG AAAAGACTAG
52851 TGGATAATGA TACCAGCTAT CCTATGTTAC AAAAAGCTGC AGATCCCCAT
52901 GCCAAGTGGA CTATACAGCT ACACAAACCT TCTGTTACCT GTTGGACACA
52951 CTGCCACAGA GCGAGCAAC ATGCTGTCTG CCATTAAAGA ACTCGGGACC
53001 CTTGAAACCC ATTTTGGGGA ATATATGTAG CAAATAATCC AATTTTAAAA
53051 GGGGCAAAAA CGTAGGTTAT CGGAGTACAT TAGACATGCT AATCTGCAGC
53101 AGTTTTGTGC AAACCTAAGT ATAATTTAAT TTTGTATTAA GTTTTCCTTT
53151 TGATATCCAG ATAAAGATTA ACATAGTCAT TGGCAATTAT ATTTGTATTT
53201 TCAATAAACA TCACATTTTA CTGAAGTATA CAGATCTATG CAAGGGATAG
53251 TGAAATAGAC AAAGCTCATT TGACTTTTCC AGAAGGAATG CATTTTAACA
53301 TTGGTGGCTC CTGTGGTTAG GGGGACTTCC AAAGCAGTAA CTCTGCGTT
53351 TCCTCAGCAG CATCATCATA ATTACACCAC TATACACAAT AATTATACTC
53401 CTAGCTGTGG TTCTATTCTA CAGCAGTTGC TGCTTTCCTG GAAACCTTGG
53451 GGAAAATAGA AATTTAAATA GCTCATAGAT TTGGCTATGA TAAGTTCACA
53501 CAAAGACAAA ATTGCAATTG GCAGTTTAGT TTCCCCAACC TTTATTGTGTT

FIGURE 3Q

53551	TCCTGATAAC	TATATTTAGT	CTGAACCTCT	TTGTCAAGGA	CACCACATAG
53601	GTTATATTGT	CTTCCTCTTT	GCATCCAATG	AAGCAGCAT	TATTGCCAGG
53651	TCATTTTTTT	TTATGGTGAT	GCCAAACTTG	ACCACTTGGC	CAAGGGAGTG
53701	ACTGCCATAC	CTCTTATTGT	GAAGGCACAT	TTTCCTCCTG	TAATTAACAA
53751	GTAACCCAG	GGGTGATACC	TTGAGACAAT	GAGAATATTT	TGTTTTCCAA
53801	TAACTTTTAC	CCAAGAATAG	CTACACACAC	CCCCTGTAAT	TATAGACTTA
53851	TGGGTCAGTT	TTTCTCACCA	TGTGTTTTAA	TCCATCGATG	TCATTCTTTC
53901	TGATATTTAA	AATCGTTCAC	AGATTGGCCA	GGAACCCCTT	AGACCAGCTT
53951	CTGTCTTCAT	TGAACCTGTC	CTTGTTTAGC	TTTGAGCACT	TCTTGGCGTT
54001	TTTGGCCCAA	GATATCTTAG	GCTTATCTCG	TACTTTCAGT	ACTCTGGACG
54051	TGTGTCAGAC	CTGAAATCAG	CCTCTTCTCC	AAGGAGACCT	GTTTCCCTTT
54101	AGTGGAAAAT	AATATTTACA	AACCAAGAGT	TGGGTGTTTG	TGTTTTACTG
54151	CTACTGGGGT	GTAAATTTTT	CTAGGCTCTT	TAATCGTGAG	TTCATATTGA
54201	AACCACCTAA	TTATTTTGTT	TTTATTTTGA	ATTACCTTTC	TTGAGGTATA
54251	GTTTACCTAA	ACGAAAGTGT	ACTCATTTGA	AGTGCTGAGT	TTGCTTCATG
54301	TTAGCAAATT	CATATACCCT	GAACGTGCAC	CCTGTACCTT	ATGACCTTTT
54351	GCAGTCAGCC	CTCTTTCAGC	CTCTGACCTG	CTTTGTGTCA	CTGTAGATTA
54401	GTGTACCTAT	TCTAGAATTT	CATGTAAGTG	GAATAACACT	ATATGAGGCC
54451	TTTTCTCTGG	CTACTTTTAC	TCAGCATTAT	GTTTTGGAAA	TTGGTACATG
54501	GTATTATGCA	TACCAATTAT	TCATTACTGT	CTCTTACTGA	ATAGCAGTCC
54551	ATTGTATGTA	TGTTTTGCTT	ATCTATTTGT	TTATCTATTT	ACAAGTTGAT
54601	GAACATTTGG	ACCATTTCCA	GCTTATGGAT	ATTATGAGTG	AAACTGTTTG
54651	AACATTTCAG	CACAAGGTTT	TGTATGGACA	TGAGCTTTCA	TTTCTCTGCA
54701	GTAAATACCT	AGGAAAGGAA	TTGCTGTGTC	ATGTTTTTTA	ACTTTATAGG
54751	AAACTACCAA	TTTTTTTTTCC	CAAGTAGTTG	TTACCATTTT	TTACTACCAC
54801	CAAGAAATGTA	TATGAGACCT	AATTATTTCCA	CATTGTCATC	AGCTCTTGGT
54851	ATTGCCAATC	TTTTCATTTT	AGCCATTCTG	GTGGGTCAGT	AGTGGCTTTA
54901	ATTTCTGTTT	TTTAATTTTG	TTTAATTTCT	GAAATTTTAA	TTTTATTGTG
54951	GTTTTAATTT	CCATTTCTGT	AATGGGTGAT	GACACAGAGC	ATCTTTTGT
55001	GTGATAATTG	GTCATTCATA	TATCTTGATG	AAATGTCCAT	TCATATCTTT
55051	CACTGACTTT	TTTAATTGGG	TTGTCTTTTT	TCTTGAGCTA	TGAAGTTCTA
55101	TGCATTCTGA	ATACTAGTGT	TTTGTGAGAT	GTATGTATTA	GGATATGTTT
55151	TCCCAGTCTA	CAGATTACTT	TAAAAATTTT	CCTAATAGTA	TCTTTTGGAG
55201	AGTAGAAAAAT	TTTAATTTTG	ATGAAGTCCA	ATTTATAGAT	TTATTTAAGG
55251	TTCTATTAT	TTATGTCGTG	TTTAAGGAAG	TTTTGCCTAC	CCTAAGACCT
55301	CAAAGATTTT	CTCCTGTATT	TTCTTCTAGA	AGTTTGTAAT	CTTAAAAACT
55351	TTAGCTTTTG	TGTTTTGGGT	CATGGTCCCA	TTTTAATTTA	ATTTTATGTA
55401	ATTTTGTGAG	ATATAGGTGT	TGTTCTTTTT	CTTCTTTTTT	TAATTTTTTA
55451	GTTAATAAAA	ATGGTATATA	TTTATATTGT	ATAACATGAT	GATTTGATAC
55501	ATGTATACAT	TGTGGAATAC	ATATTACCTC	ACATGGTTAT	CATTTTTTTG
55551	TGATAAGAAC	ACTTAAAAAT	CTGTCTCAGC	AATTTTTAAC	TATATAATAT
55601	ATTAACATA	GTCACCATGA	TATACAATAG	ATCTCTTGAA	CTTATTCCTT
55651	CTAAGTAAAA	ATTTGTCCCT	TGACCACCAG	CCCCCTGCC	ACCCCTCACT
55701	CCCTGTCCAA	CCTCTGATAC	CACCATTTTA	CTTCTGTGTT	CTATGAGTTT
55751	GACTTTTTTAA	GATTCCATTT	ATCAGTGAGA	CCATTGGTAT	TTGTGTTTCT
55801	TAGCCTGGTG	AATTTTACTT	AGCATAATGT	CTTCCCAGTT	TTTTTATGTT
55851	GTTGCAAAAT	ACAGGATTTT	CTTCTTTTCT	AAGGCAGAA	AGTACCCTAT
55901	TGTGTTTATG	TGTATATATA	TATATGTGTG	TGTGTGTGTG	TGTGTGTGTG
55951	TGTATATATA	TATATATATA	TCCCATTTTC	TTAATCCATT	CATCTGTTGA
56001	TAGGCACTTA	GGTTGATTTT	GTATCTTGGC	TATTGTGAAT	AGTCTGCAA
56051	TAAACATGGG	CATTTCTCTT	GACATACTGA	TTTCATATCC	TTTGGATATA
56101	TATGTTCAAT	AATGGAATTG	CTGCATCATT	TGGTAGCTCT	ATTTTAAATA
56151	TTTTGAAGAG	CCTCCATACT	GTTCTCTACA	ATGGCTATGC	CAATTTACAT
56201	TTCTACCAAC	CATGTACAAG	GGTCCCCTCT	TCTCCACATC	TACTTTTTTT
56251	TTTTAGCATG	GATGTCCATT	CATTCCAGCC	CTGATTGCTG	AAGAGACTGT
56301	CCTTTTCCCC	CATTGAACCTG	CCTTGGCATC	TTAGCCAGAA	ATCGACTGAC
56351	TATATGTAGG	AGGAACTATT	TCTAAATTCT	CTAGTCTCTT	CCATTTATCT
56401	ATGTATTTAT	CCTTACACTA	ATGCCACATT	GTCTTGATTT	ATATAGCTTT
56451	ATAATAAGCA	GAGCCCAGTC	AGGCCCTCC	TAGACAGTCC	ATACCAGAAT
56501	TCACAAATAC	ATATGACCTA	AAGCAAGTAA	CATAATTAAG	TGAAGCTGTT
56551	CTTGTATAAG	CAGTATTACT	TTATTTATAT	TAAAATCTAA	CGGGCTAAAA
56601	TTTCAACGTG	GTTCAATTTT	ATTTATTAAT	GTTTTGAGTC	ATGTCCTTTT
56651	CTCACATGTC	TCATGGTTCT	TATTATGGTT	TATTCTAAT	GATATCTTTA

FIGURE 3R

56701 TACACATACT TTTCCACACTA AATATTTAGG AACATTCCCT GTTTTCATAC
56751 ATAGAACAAT ACTGCCTCCA TACATTTTTG AAATGCGTGG CCCATTTGAT
56801 CTGTTTTTCA GTTTCCCACT TCAAAGAGAG GAATACAGTA TCTCCCATGA
56851 CAGCATCAGC TGGTTAATGA ATGGTGATTG GCATGCAGAC TCAGCATTGA
56901 GACTGCAGTG GGGAAATGATG GGGACACTGT GGCAAACGGG GGAGGGCTGG
56951 CACTGCTGAG AGGGGCACAG CCACTCTACG CCACTTTCAT AACATCATGT
57001 CAAATGTACA CAAATTCACC ATTATTTATT TTGTTGCTCA AATTATTCCA
57051 GCTTTGTCCA CTAGGAGCTG TTTCAATTGG CTATGTCCCT TTGACACACA
57101 CACCAATGTG GGTTTGTTCG GTTTTTTGTC TTATTTGAAT GCTTCTTTCC
57151 TTTCTGGCTC ATCCAGGCTT ATCTTGTTGA TTTCCCATCC CAGTCCTAGA
57201 ATCAGCCATT TCTCTAAGAA TCCCTGGTTT CTTTTATAAG AGAATGGCAT
57251 TAGAAAATGC CACAGAGGTT AAGTGTCATT CCCATCACAT CATAGCAAGG
57301 GTACATACTA TCAACACGAT TTATGACTAT CGATGTTACC CTTAATCATC
57351 TAGCCAAGAT GGATGGTGAA ATCATTAGGA GGGGGATGCA ATAAAGAGGA
57401 AGAAAAGCAG ACTTTATGTT CATTTTCAAG CTGTTCCTAA AGGAAAAGTTA
57451 TAGGTGTATT TGATCATATA AATATCGTTT TGTTTTGGAA AATCACGTTT
57501 AGGGACAATA AAATTGGAAA GAATCCTTGC TTCCAAATCA CCTCTGTGTT
57551 CAAATCTTCA TCATATTTGC ACTGCCCTTT CCTTTGTGTT CTTAGTTCAT
57601 GGGTCCCATT GGATTTGATG GGTTCGTTT ACTTTTGCT ACTGAAATTG
57651 TTAGTTTTAA AAAACAGGAT ACAGAGTGTC ACATTTTTTA TTGTAACCTCC
57701 ACTTCTTGA AGTTGCCTAT AGCATTTTAA ATTTCAGAAG ATCGATAACT
57751 TTATTCATT CCCTTTGGAA AAAATAAAAC AAGATTTTAA CTAGTGGCAT
57801 GTCTTCAAG AAGCTAAAGA CATTTAAGTT TTTCTGTTTT GCTCTAAGGG
57851 CATTCTGATG ATTGCCTGAA TGTGATCTTC TGAGTGTTC AGTCCCTGGA
57901 GCTGGCTGTT AGCCATCTCC CAAGGAGGGT CGAAAAGAAC GTAGCAGAAA
57951 GCTGCAGAAA GAAAAGCTGG CTAAAGAAAC AGGAGCTGCC AGCCAGGGCA
58001 ACATAGTGAG ACCCCAATC TATAGAAAAT TTAAAAGCT GTCTGGCAT
58051 GGCATGCCCTG TAATCTTAGC TACTCAGAAG GCTGAGGTGG GAGGATCACT
58101 TGATCCCAGG AGTTGGGGGC TGCAGTGAGT ACTTCCAGCC TGGGTGACAG
58151 AGGAGACCCT GACTCAAAAA AAAAAAAAG AGCCGTTGT TGTAAAGGGC
58201 CACCAGACTG GAGTGCATGG TAGTCACCTG CCTCCCTCCT TTCCTGGAGA
58251 AGATGACAAC GTGATGAACA AGCACCATA CCCTGGAATA GTTTAAATGG
58301 CATTACAGCT GGAGGAGTGT GCACATGCAC CAAATATATC TTGTGTGTCC
58351 TTTGTAGCCA TTGGGTCTAT GGAGATTACT CTGGCTGTGA GTTTGGTTGA
58401 TTAACATTGC TATGCAAGCC CTGTCCATTT AGCTGGAGGT TATCACAGGA
58451 GGAATAAACC ACAGAATATG ACTTTGGCAT TGAATAAATG GGAAGAGAGT
58501 GCTTTTGGGG GCCAGAACTG TTTGTAATAT TATAACTCCT ATAAATACAT
58551 GAATTGCTGC CCCTTTATCA TAATATCCAT TGCTTTAATG CTCTGTTTTA
58601 GATTGGAGTT CACACCAGAC ACCTGAGATT GTGTTTGTTA TGTAACGTCT
58651 ATTTTCATGTT GAGAAAGTAG CAAAGCTTTT AAATACTGAG AATATTTTAG
58701 TTACATGAAG ATACTTTTAG TAGTCACTGT TGTTGTTACA TTCCCCCTAC
58751 CCCTCAGAAA ATAACAGGGC TGTTAAGGAA TCCTCAAAGA GCATAGATTG
58801 AGTGAAAATG ACACAGAACA AAGGACAGAT CCCAGGAGTG AAATGAAGAA
58851 GTTCTGTAAA TAGCTGTGCC GTTTTCCTTT GAAATGTCTG GCACACTCTA
58901 TATAGTATAG TGGTCGAGGA TAGAGGGGCT AATTCTGTGA TGAAGCATTC
58951 TGCATGGAAT TTCAGCAGGG CATAGATGGT GAGGGCATCT GGATCTGTTT
59001 GAGTTTTTAA ACTAATTATA TGACAAACTT TTTAAAATGT AGCATACCTG
59051 GAAACATCAT CCCGCCACGT CATCTGCATT TAAATAATCA TTGCCTCACC
59101 TTTAACACCC AGCCTCTAGA AAAATAAAGC ATGAACAAAT GTTAGCTCTG
59151 AGTGCTCTC AGTAATTGG AGTGTGCTAA GCAAAACCTA CATTTCTAG
59201 CATGAAATTG GCACAGGAAT GCATGCAAAG TTTTGCTTCT TTGATTCATC
59251 TGGTTACCTA GAACCTGAGG CCATTCTGTA TTCTGTGGAC AAAACCCTAT
59301 ATACCTTTCA TGACCCAGCT TAAATGAAAA GTCTAATGCA AAACATGCTG
59351 AATTTCTGTG GCCATATTTA ATTGTTCTAG TGGTCCCACA GGTATAGTTT
59401 ATTATCTTTT TTAATTCCCC TTTAATGGCA ATTTCTCTTT TCCTTTTTTA
59451 AAAATGTCTT TTGCTTCTG TTCATTATT ACCTGTCTCC CTTTTTTATT
59501 GTGAGCATGT CTCTTGACA GCACAGACAC ATAGTGATTT CTTGTTACAT
59551 GTGGGCCCCAC ATTTATTTTT TATTTCTATT TGTTTTTCAT TCCTATTTAT
59601 TTATTTATTT ATTTATTTAT TTATTTTGAG CCAGGGTCTT GCTTCATTGT
59651 CCAGGCCAGA GTGCAGTGGT GCAATCACAT CTCCTGCAA CCTCTACTTC
59701 CCGGGCTCAA GCAATCTCC CGCCTCAGCC TCCCAAGTAG CTGGAACCTAC
59751 AGGCACACAC CACCAACCAC ACCTGGCTAA TGGGCCATA TGTAATGAC
59801 TAATTAGTAT TTAAACACTT GCCAAGAGTT GTTTAATACC TGCTGTGTGC

FIGURE 3S

59851 AGGGCACAAT CTTATACATT CTTAAGGGAG CACAGAGGTG TCAGATGGGG
59901 TCTGCCACC AGTTTTTCAC AGATTTGAAT ATTTAGCGTT CTGGGCAAAA
59951 GCAGTTTAGG AGCTGAAAAA TCATGGCCAT TTTAAGAAGA TTATCTTACC
60001 CAAAAACCCA CAGTACTATT GTTATTGCCT TATATATAAA GCCATTCTGT
60051 TAATTTTTTA AAAGTATGTA TTAGGTTTAA CCTGGTTTCT CTGTGTTTGC
60101 CATGTTTAAC ATCTAAGGCC AAAAATTGA AATATTTTTA CTTTCTGAGT
60151 ATGTCAGGAA AGAGGAGTCT GAAGCTGGAG TGAGTTGGGG AGGTGGGGGG
60201 GACTATATTT TTATGAAAAT TTTAGTAAAT TTCCTGGGTT TTTGTCCCAC
60251 CTATGGGGAA GATCTAGGAT ACAAAGCAT TAAATGTTAA TATTGATTCA
60301 AGAATTAAAT CATCAAAACA TTGCTGGGAG AAATTAAAGA CCTAAATAAA
60351 TGTAGAGAGA TCATGTTTAT GGGCTAGAAA ACTCAATATT GTTAAGATGT
60401 CACCAAATTA ATATATAGAT TCAATGCAAT CTCTATCGGA ATTTGCTGAA
60451 ATTGACCAAC TGACTCTGAA ATTCATGTGG AAATAAAAAG GATCTATAAC
60501 AGTCAAAACA ACCTTGAAAA TGAAGGATAA AGTTGGAGGA GTAATACTAT
60551 CTGATTATAA GACTTATTAT AAAGCTATGG TAAATCAGGA TATTGTGGCA
60601 TTGGTATTAA GATCACTGAA GAGACCAATG GACCAGATTA GAGCATCCAG
60651 AAATAAACCC ATACATATAT GCATAGCTGA TTTTGTAAAA AGTTGTAATG
60701 GCGGCTCAGT TGTTCCAGGA CAATTAGATA TAGTTGGAAC AATTAGTTAT
60751 CCATATACAA AAAAAGAAAA GAACTTCAAT CAGTTCCTCA TACCATATAT
60801 AAAAATTAAC TGAAAAATGGA TCATAGTCTA AATATATTAC CTAAACTAT
60851 AATACTTGTA GAAAGGAGGA GAAAACCTT GTAACCTTGA ATTAGGCAAA
60901 TATATATATA TATATTTTTT TTTTTTCAA GCAGTTCTCA TGCCTCACCC
60951 TCCTGAATAG CTGTTGTTAC AGGTGTTCCC CACCACCTT GGCTAATTTT
61001 TGTATTTTTA GTAGAGACGG GGTTCACCA TGTGCGCCAG GCTGGTCTCG
61051 AACTCCTGAC CTCAAGTGAT CCGCCACCT CGACCTCCA AAGTGTGCTG
61101 GAATTACAGG CATGAGCCAC CGTGCAGAGC CACAAAAATA TTTTAAGTAG
61151 AACATCAAAA GCATGATCCA TAAAATAACA AATAGATGAA TTGGACTTCA
61201 TTAAGATTAA AACTTCTGTT TTTCAAAAAGA CACTGTTATA AGAATGAAAA
61251 GATGAGCCAC GGAGTGGGAG AAAATATTTA TACATCATAT AAAAGATTTG
61301 TGTGCAGAAAT TGATAAAATA CTCTCAAAAG TCAATGTAAG AAAACCTTTT
61351 TTTTTTTGAA TGTGCGAAAG ATTTGAACTG ACTTTTGTCC AAGGAAGAGA
61401 TACAGATAGC AGTAAGCATA TTAGTCATTA AAATAATGCA AATTAAAACT
61451 ATAATGGGAT ACCACTATTA GTAGTATGTA TTAGAATTAC TGAAATTGAA
61501 GATCGACAAT ACCAAGTGTT GGTGAGGATG TGGAGGAACT AGACGTCTCT
61551 TACACTGCTG ATGAGAATGT AAAATGGCAG AAGCACTTTG GAAAATAATC
61601 TGACAGTTTC TGAAAAAGTT AAATGTATAC CTAGTGCATG ATCCAGCCAT
61651 TCCACTTCTA TGTATTTATC TTAAAAAAGA GAGAAAGAAA TTCGCATAAA
61701 CTTGTAAACA CGTATTTAGT TTGTAGCAGC TTCATCTGTA ATAGCCAAAA
61751 GCTTGAAACA ACCCAAATGT CCCTCAGCAG GTGAATGTGT AAAGTGTGGT
61801 ATGAACACG CAATAGAATA CCATCCAGTA AAATAAAGGA GGGAACTATT
61851 AATGTACATT ACAAGTAGAT GAATCTCTT ATAACATATG CAAATGAAAG
61901 AAGCTATATT TACACATACA CACATTCACA TACACCCAC ATGCTGAATT
61951 ATTACATTCA TACAAAATTC TAGAGGATG AAACATAATG ATAGTTATAG
62001 AAAGGAGATT GGGGTTTCTT GCGATGGGT GATATAAAAA GGGATTGGAG
62051 AAATGGATTA AAAGCACAAAG GAAATTTTGG GGGGTGCTGG GTGTGTTAAT
62101 TATATTCAAT GTGGTGATGG CTTTATGGCT ATATACATAT GTCAAAATGT
62151 GTCTAATTTT AGACTTTAAA AAGCGCATTT TATTCTATAT TAGTATTTCA
62201 GGGATCCCAA GACAACCTG TTTGGTGGTT TACTAGGACC TGTAGCACTC
62251 AGCATATAGT CGTCTTAGG GCTAAGACTT ATTACACTGA CGTAGAAGGA
62301 TACACAGGTG GATCAGTAAG GGGAAATGAC ATCAGGCAGG GTCCAGAGGA
62351 ATCCATGTGT GGGTTTTCTG GTTCCCTCC CTCCCTCTGA GATCACACAC
62401 AGCATACCACT CTCTCCAGTA GTGAAAATGT AGTCACAGGC GTACAATGAT
62451 TATACCCAGG GAAACCCACT TAAGATTCAA GAGTTCAGGG TTTTGTGTCA
62501 GGGCTTGTCA CATAGGCACT CTTGCCCACC AATATTTCAT ATTCCTGAAA
62551 GGAAAGCAGT TGTTCAAGTGC CCCAGACAGA TAAATAAACC TTATAAGGGT
62601 AGGAAATGTT TCAAAAAGCTG TGTTCCCGGA CACTAGCCAA GGGCAAGCCT
62651 TGCAAGCAGA CCTTTCTAAA GATAAGGCTT TAGATAAAGT CTCAGGCTTG
62701 TTAACACTTT TCTGCAGTCA CTTATACCTC AGCTTGTTAA AAAAAAAAAA
62751 AGTTGTAAAA GTTAGTGTGA GTTAGCACAA GACAGTTGCA GTTCATTTAT
62801 TGAAAAAATG ATAAGAGATT ATAAAAATA GTAACTTTAG ATTTGAGGCA
62851 GACCAATGCA GTGAGAACCT CATTACCTGG AATGCTTCAT ACCCTTAAAT
62901 CCCCTCTTTG GAATTAGCCA GGAGTGTGG TGGGTGGCTG TAATCGAGCT
62951 ACTCAGGAGG CTGAGGCAGG AGAATTACTT GAACCCGGA GGCAGAGATT

FIGURE 3T

63001 GCAGTGAGCC AAGATCACAC CACTGCACTC CAGCCTGGGC AACAGAGTGA
63051 GACTCTGACT CCAAAAAA AAAAATAAAT CCCCTTTTGG
63101 GAACAAGGTA GGATAATAAT AAGTAAACC AGGAAGCTTG GCTAATGGGA
63151 GCTTCTAATT ATTTTACTC TTTAATATTG TGACTTTCAT TTCTATTGTA
63201 TTTGAAAATC TTTCCAAGGT ATATCATTTT TTTCCTTTCA TAAAAAATTC
63251 CTTGGTTGAT GTTCATTATT TAACCACTGG TTAAGTATT ATGACCCAGT
63301 TCAGTTCTAT AGCAAATAAA AGATAAAGCA CTGCTGTTGA AATTATAAAT
63351 ACCTCAACAA CAAGACCACC TCATGCAGTT GTGCAGGTTA TACCTCGTCC
63401 AAGGCACACC CAGCTGTGAG GGTGCGTGGA GCTTAAGTCC AGCTTGTAAT
63451 TTGCCAAGCT ATGGGCTCCA GCATGGGGTG TGTCTGCCCC AGAAAGGGGC
63501 ACCTTTTCT AGTTTATGCT AAGATGCCTT TTGAGCTGTT CAGCATGAGC
63551 CCTGGA AAAA GGTGGTGGTA GCGATTTTCT CCTACAGTGC TGCCTAATAT
63601 CAGCAAGCTT TCTTGTGGC ATCTCTTCC CCTTAAAGAA ATCCAGCTAG
63651 TAACTTTCAG TTGAGCGTCA TGTTTAACCA GGATTCCTACT GTGTGTAACA
63701 AGGACAAGCG ATTTCAACGG TCTCTAGTTT GGCCCAATTG CCCTTAAAG
63751 GCAGGCAAAAT GTTTAGGGTA TGTGTTTCTT TTTATCACTC TGAAGAAGC
63801 CAGGTTTCAGG TCTGTATCTG GATCCCATTA TTAATGTCCC CAGCCAAGAA
63851 TTCTGTGTAT GTATAGCAAT AGAAAAGTCA GAGAAAGGAC GCTCCTGTGA
63901 CTTCTCTGAA GTTTTTGTTC TTCCTGAGTA ATGAAGTTTC CTAAAGGGGA
63951 ATTAACCTTT CTCACCTCGG AAGATAGAAG TATTGTTTAA AGATTCAACT
64001 TTGAAACAAA TAGGAAAATA TCTGATAGTT GCAACTTAGC TTCAAATCAG
64051 CGATGTCCAG ATATTGACAA CCATTTTATT TCTCCTAAAC CTTGAGCCCT
64101 AGCCCAATTT ATGACGAGT AGAGATCATG GCACAGCAGC CAGCCTAACA
64151 GATGGGGGCC ATACTCTAGC AGCAGAAGGA TTCTGTTTTG AAACCTTCAG
64201 CTTTTGAAAT CTTACACCAC TACCAGCCCT ACTTCTTCTA CATAGATCAC
64251 ATTCATTTC TCCCTCTTTT TCCTAAGGAA ACTTAAACA CATGTCTTTT
64301 CCCTTTTAT AGATGCGAAC CACCCGCAAG GTCTCCGTCT GGCTGTGGG
64351 CTTGGTTGGT GGGCGGCGCT ACGAACGTCC GCTGGTGGAA AACGGCAAAG
64401 TTGTTGGCTG GTACACCGG TGGAGAGCAG ACAGGCCTTT TGCCATCGAC
64451 ATGGCAGGTG AGCAGTGTGG GTGATGACAT TTGTTCTGTC TGGACTGTTT
64501 TTATGCTCTT GTTTATAACG ATGCACTAGA TGAAGGAAGC TTTAAAAGAC
64551 AAATTTGGAT AAAACCTTAC ATCATATCAT ATTCAAGAGA TGAAATATTT
64601 AAACCTTCAA AATAGGCTCT TTGGTTAGAT CAAGTGAAA TTGATTGGA
64651 GGGTGATTAG AAAATGCCCT TTCTGTCCA TTTTGTCCCC TGTCTGTGCC
64701 TTTATCCAC AAGCGTCTAC ATGGCAGCTA CTGGGTTGGC CACTGGGGAT
64751 TCGGTGGTGA GAGCTAGACC TGGCTCCTGC CTTCCAGGGG TCTGTTAGT
64801 GGAACCTTTT AGTCCCTTT TCTAGAAGAC TGATATATTA AAATATATCA
64851 TGTTTATTGA TAAATTTAAC AATGATATAA AAATTGACAA GTCATTTTAA
64901 TGCTTATTGA TAGGTTTAGT GCTTTATTGA TATATTTAAT ACTAAAATAT
64951 AAACCTTAGAT TTCTGGTATT TCAAGAATTT ATTGAGTATA ACTGTCTTAA
65001 AGTTTTTATT CCCTGAACAA CCAACTGAAT TGAATTAGCC CTGCAGTAGG
65051 ACCACAGCTT CTAATAATGCT ACTTTATCAT AAAACAATC ATTTTCTATG
65101 GGTATAGTAA AATGATGCCT GTGATAACTG TGAAGGATG GAGTTTGAAA
65151 CATGAGGCTC AGAGGCAAAA AAAAAA TCCGGTGACA TCTATACTCT
65201 TAAAAATGAA GGCAGAAAGG CTTCAAAATT GATCTCATCA ATCTTGAGCT
65251 CTGAAGCACA GCTCTGTGCG GCTGCCAGCC TGTGCTTGCC CCATCTTCTG
65301 TGCATATTTT CCAGCCGTAG TCAAGATCTC CGCGTTCAGA ATTCTGATGG
65351 GATGGAGGCT GTCTTCTGAA CTGGATTAT CACTTTTATT CTGACAATAC
65401 TATAAATCTG AGGGAGCCAG AGGACGAAGA ATACCAGGAG TCATCTGAGG
65451 GGCACAGCGC TCATGGACAG CTGTGTGGTG GGTCTTGTC CATGGCATCG
65501 TGGGAGAGGA CAAATAGGAG ATTTTACTC AACATTTAAC ACACATCTCC
65551 ACAGCACCAG CCCTCAGCCA GGCCATGTCT CAGGCCCTG ACCTCTCCAT
65601 CCCTCTGTTA CTCCAGCTGT TTGCTTTGGT CTTCACTTCT TGCAGTCCA
65651 GAACTGAGCT GGCATCTCAG TCTAGGTCT CACCTGGAGG CAGAAGGAGA
65701 GGCAGCTGAG CCATCTTGGA CGGTCTGAG GACCCTCGAA AGAGGCTGCT
65751 CCTCGACCCG CTCAGAGTGC ATGGCCCTGA AAACATGGGG CATAGTGTAT
65801 CTTTTGAAAA TCGGGCTTCT TGCTGACCAG AAGTGACCT TAGAGCAGAA
65851 AATTTAGACA ACATTAGGGA AAGTCCTTCT GCTTCTCTGG GATGTAGTTT
65901 TCTTGTGTAA AGTGAGGCAG CTGCCGAGA TGACCACCAG GGCCCTCCAG
65951 TGCAGCCCTC CTTTCTTGGC CTCCCACCTT GGAACCTCA AGTAAGAGCC
66001 CAAGCTTGGG CTTCTAAGTG AGGATTGTGA CTGCTCAAGC AGCCGACAGC
66051 AGACTTTTGC TTCAGATTTT CCCAGAGCCT TGTTTCAACA CGGACTTCCC
66101 AGACATATCT CTTTAAACG TGGGATGTCT GCCCATTTCC TTGCATGGAT

FIGURE 3U

66151	CATGCAAGGT	GAGGGCAACT	TGGGTAACTC	TTCCTGGATT	TTAATCTAGG
66201	AACTTTATGT	AGATGATCAC	GTATCAAATA	GACTTGTGTA	ATATTTGCAT
66251	TGGTTCCCTT	AGAATTTGGG	TCACATTGAT	ATTCTAAAA	TTAAAGATGT
66301	ATGTGTTTGT	GCATTAGGGC	TGGCCTATCT	AGGACTGCCA	AATTCTGTGG
66351	GAATTCTTTT	TTCCATGACA	AGACCAATGT	TTGGATTTTT	CTAAGCATT
66401	CAGTATATTT	TCAAAGCATA	TTAAAAACAC	CCATCATAAT	AAGATATGAA
66451	TTATTTCCCT	GCTCTGTATT	CATTATCATG	GTTTAAAAAT	AGGAATAAAG
66501	TGTCTCTAAG	GAGACAACCT	TTGTCACACT	AAATAATTTT	TTTCACTTCA
66551	CACATGAAC	TGCTTTGCAT	CTTAGCTTTC	AGTAAATTAT	TGATATTTTT
66601	GGAAGTCTTT	AAGTGTAAAG	AATTTGGTCG	ATAGGATAGT	TATCTGTTTT
66651	TTGAGGCAGT	TTGTTCTAAT	TCTAACTTAA	AAATTTGTGG	CTTTGTTTAG
66701	ATTCCACATA	CAATTCATTT	ATTCTCTGGG	AAGAGGGAAA	AGACCTTTTA
66751	GGCCTTCATG	TTCAATTGGT	GCTTCCCGCC	TCATTTCCAA	GTTACATGTA
66801	CACACACACA	CACACACACA	CACACACACA	CACACAATCT	GAGCTCTGAG
66851	GAGCTCTACT	TTGAAAATGC	TCTGTGATAG	TCAAGTGAGA	GCACCATATT
66901	GGAGCCTGGG	TCTGTCTTGC	ATTTGCAAAG	CGGATTAAGA	GCCCAAATGG
66951	AACATTTGTG	GGTTTGAGCA	CATTCACTAG	AAGCCCTCA	GAGCCTGTCC
67001	TGTTTGTATC	TCTGTGAGGT	CATCACATAG	CCCATCACTG	GAAACTCATT
67051	TGAGTATCAA	ACATTGAAAC	TGCGATGTTT	CATGTCATTC	TAGTAGTTCT
67101	TACACTGTCA	TTTTATTGCC	ATGTTGAACT	TGCTGATAC	TGAAATTTTG
67151	CTCTCAGGTG	ACATGAAACA	TTGTTCTTGA	AATAATCTTA	TGTTTACAAC
67201	CATAATGGCA	GAATTAAGAT	TATTTCTGTT	CCATTGGAGG	ATATTTTTTA
67251	AAATAATGAT	TACTACTTAA	AAAAATTAAT	ATGCTTGCCC	ACAAGATGGA
67301	AAGAAAAAC	TGGAGGCAGC	CCCCTGGTG	GTGTGCAGTT	GGCTTCAAAG
67351	CTGACCAGTA	GCCACATAGC	TCTGCCAAGC	CAGTGAGGCC	CTGGGGGGTT
67401	TCTACTGTTT	TGTGCCTCAG	AATTCAATTC	TTACACCTCA	GGAATCTGAG
67451	GATTGGCTAA	AAGTGAGGAA	GTCCACCAAA	GGTTTTAGCT	CTGTTTTGAA
67501	GGGAGGCAGT	TAATTTCAAG	TGACAGACTC	ACTTCAGCCA	CTTCCAGGGA
67551	GGTGTCAGTA	AGAACGACTG	CTTGAAAGAA	CTGAGCTTAA	ATCAATCTTC
67601	ACCCCTACCA	GGAGGTGTAG	ATTTGTTCAA	GTGAGAACT	TAAAACAGAT
67651	ATTTATTAGG	AATTTTCAAC	ATTGGCATGT	GCCTTATTAT	TAATTCTAGG
67701	ATGTGGCCCG	TGGGACACGG	TGCTCCATTA	ATGACAGTAT	ATGCAGTTCC
67751	CAGTTGAGTT	GCTGGCACAC	AGTAGGTACT	TTATTCTGCT	AAAAACACAA
67801	CTAGGTGTAC	TGCAATTAGA	TTCTGACACC	ACCTGGAGTT	GGTGCAGACC
67851	CCACAGGTTA	GAGGGCACAG	TCTCCAACAA	GACTGCCCTT	ATTTACATG
67901	CCCCCAGCG	CTGGAGAGT	CCCAGGCCAC	CTGCACTTCT	GATCAACTGA
67951	CTGCACTGGA	TGTTTCCAC	AATCTCCTCA	GGTTTGCTAA	TTTGCTAGAA
68001	TGACTCACAG	AACTCAGGAG	AGTGCTGTAA	TTATACAAAT	TATCATTGTA
68051	ATCAGTGTTA	TAAAGAATAC	AAGTCAGGAC	CAGCCAAATG	AAGTGACACA
68101	CAGGCCAGCA	GAGCCAGGTG	GAAGGAGCAG	GCTGGGAGCA	TACAGGTCTT
68151	CTGTGCCTTT	TCCTCATACA	GGTGAAGTCT	AGGAAAGCTT	AGTTTTCTGG
68201	TCTGGAGTCC	TGTGGACCAG	GGTGTGTCGA	AGCCCTGGGG	ATGGATGTGC
68251	TCCACAGCG	AGACTCTGTG	GCAGCCTCGG	ATTGCATCCT	GGGGGCAGGC
68301	ATTTAAAGTG	ACTGCAGGGG	GGGAGCCAGG	GAAAGAGACA	AGGCCAGCA
68351	AGAGGGTGTT	AGGGTGACAC	GTGGCGAGGT	CACTGGAGAG	AAGGGTGGA
68401	TGAATGATGA	ATTCCGTTAT	TGGATGTGGG	AAGAGGAGGA	CCCTTGGTGA
68451	GTATGGGAGA	AAGACCGCTG	GAAGCAGAAT	GGTCTGAGCA	AAGTTAGGTT
68501	TCTGGACGGG	CATGGTAGCT	AACACCTATA	ATCTCGGCAC	TTTGGGAGGC
68551	TGAGGCAGGT	GAATCACCTG	AGGTCAGGAG	TTCAAGACCA	GCCTGGCCAA
68601	CATGGTGAAA	CCCCGTCTCT	ACTACAAATA	CAAAAATTAG	CTGGGCGTGG
68651	TGGCAAATGC	CTATAATCCC	AGCTACTCAG	GAGGCTGAGA	CATGAGAATC
68701	ACTTGAACCA	GGAGGTGGAG	GTTGCAGTGA	GCCGAGATTG	CACCTCTGCA
68751	CTCCAGCCTG	GGAGACACAG	GGAGACTGTT	TCAAAAAAAA	AAAAAAAATT
68801	AGGTTTCTAA	TGGAGCAGAG	GGGGAGAGAT	TTGATCTGGG	AAAGGCTTGG
68851	GGAGGTTCTG	TCTTGGCTGG	ACAGGGATTT	GAAAGGATGT	TGTGATGATG
68901	AGTGGCCAGG	AGGTATGGGT	TAGGAAGAGG	AAGGGTGCAA	TGGCCACTGA
68951	GGTCCCTCC	AACTCGAGGG	TTGTGTGATT	TTGACAAGTT	CTGATTCTAA
69001	GGACTGAGGT	TGTGTAAGGC	GGTGCACCTG	GTTATACTTG	TCTTCTGTCTG
69051	GCAGCCAAC	CCTCCTCGCC	TACGGCCTAT	CACCAGCTTT	CCAGCTGGTG
69101	GTAGTTTTAT	TCATGAGAGG	CTTAAAAGCC	CTGACTTTTG	TGGCGAGTGG
69151	GTGGACAGTG	GGGGTGGGGA	GCATGACTAG	GAGGCAGGAG	GGCCAGGAGA
69201	CAACTCTTAA	GAAATGCGGC	AGCAAATGAG	TAGGAAAGAC	AGATGGTGGC
69251	AGTTTCAAGG	GGTATAACAG	CTTTTCTCTC	TTTCTTTAAT	GATGGAGGGG

FIGURE 3V

69301 GAGAAATTGA AGTTTTAAGA AGTGATAAGT GTTGAAAGTC CCAAAGGAGA
69351 GGAAATGAGG GGAGATCAAG ACCTTAGATG GACAGGTTCA CCTAGATAGA
69401 GTCACCTCTG ACTCCAGAA AAAAGGTGAG ATAAGTAAGG AAGCCAAGGG
69451 CTGGGAAGGT GGAGGGGCCA GTTGTGGAA TTGACCGTCC GCCAAATGTT
69501 AATAGAGGGA GAAGTGACAT TTGGCTGAAT TCCACACACA CTGAATGTAG
69551 CAGCCCCTCG CCTCAAGGAG TTTTGTATCT AGCAGAGAGA GAATGTCTAC
69601 AAGAGCATGG CAGATACATC GTGGGGTCGA AAATGAGTAC AAGTGGAATG
69651 ATTGGGGGTT ACATTTAAAG AGAAAACCAC AGCCACTGGG GGAGTTTCGG
69701 GAAAGGTCTT GGGAAGAGGT GACATCTGAG AGGCACCTTC CGTGCTAGGC
69751 CCAGGCCAGG GTAGGGAGGG ATCATGGGCA GGGTGTGTTT TTGGAACAAG
69801 TTATCCCAGG GTATGTGTAG CTCTTGGGAA GGGCAAGCTG GGGTCAGATA
69851 GTGAGGACTG AGTGCTAAGA TGAGAAGTTT TTCTTCATTT CTGTGGACAT
69901 TGGAGAGTCT GACATTTTTT AAGTAGGGGA CTGATGTGAT TAGAAATACA
69951 GTTTGAGAAC CACATGTTGG CAGTGTGGGA TGAATGGGGG AGGAGGGCTG
70001 GGCCCTGGAGG CTCAGGCAGC CATCTGGGTA ATGAGCCGGT AGCGGGCTGG
70051 GAGGTGAGAG GAGGTCTTAA ATACCACAGC TATTGGGGAC TTATAAAATT
70101 TTAACAGCCT TTTGAGATTA TACTCTAAAT CAGCAGACAC TTAGATCTTT
70151 TTAACACCTT TTTCTGTTGT ATGGTATGGT GATAAATGAT GTATTAAATT
70201 TAAGTTTGGT TAATTTTAAT TGGTGTAAAT TGTATTATCC TTTGAGTCGT
70251 AATTTATGTG TAGAAAATAC AGTGATGTTG GGTAATTAAA ACATCTTTTT
70301 AACCAGAACA CCTATTTTGT GTAAAATAGG AGTCTGCATA TTAGGAAAAA
70351 AAAAAAATAC CACATCACCT GACTGAAGTT TTCAAGCTCA GGATTCACCTG
70401 TGGGTGTGTT TTTCCAGTGG AGGGTGTGCA GGCTGAAAGT GAGGAAGACA
70451 GTGATCACGC CTGGCTGGGC CTCCTGTATC CATACCTGCC CTCTCCCGTG
70501 TCCACTCCAC CTCGAAGCAG GAGGAATCTT TCAGGAATGC AAACCAGATT
70551 CTTGGCAGTC CTTGTCTCAT AGCTCTTCAG GGGCTACTCA TGCTCTTGGG
70601 ATAAACAATT CCTTGTCACT GGCACCTGCC AGGCCCTGCC CGGCCACCCC
70651 CTGCCCACCT TACTATTCTT GTTCCCCTCT ACTCAATCTT TGCGGGCAGA
70701 GATCACTTCC TCCAGCACAT TCTACCCTTC CCTTGGGGC CTGCACTGAT
70751 GCCCCTGCCCT GGAAATGCTC CTTCCTCGTT CAGCCCTACT CATCCTTCAA
70801 ATCTCAGCTT AAAGGCTGCC TTCTTGGGGA AGGTTTGTCT GATGCTTCAA
70851 TTAAGATAGC TCCTCCCGTG TTATAATGTG CTGTTCTCTC AGCCTCCCAT
70901 ACCTCTGCAC CTTGTACAG TGTTGTGACA TCTCTCATT TAATTGTTGA
70951 GGCTCCGCCA CCCCAGCTCC CAGAATGCAT CCTTCTGTGA GGCAGAAGCC
71001 GGACTATCCT GCCCTCCACT CCTTGCCCAA TCCCAGCCCC AGGTTTCCCC
71051 TAGCCCCAGT CTTGTAGTGG GGCTGAGTGA CGGCACATC CCAGAGCAGC
71101 TGTCCCGCT ACAAGTTTAC CAGGCAAACC TTTAAAAAAT TATTATAAAT
71151 GATGACCATG AAACCTGGAG GGGTCGAGGG ATCACTCTGG GCAGGTTGCT
71201 GAAGCTGCT TTCTGTGGGC TCTCTGCAGG GACATGGGAA TGACAGTTAT
71251 TCTGGGTCTC CTTATCTCTA ATGTTGTGCA ACAAGGAATT TTGCCTGGGT
71301 TAATTTATTT GGCAGACCTT TTCTCAGTAG ATAATGCTGT GATCAGCTTC
71351 AGCCAGCCCC GGATCAGATG ATCATCAAAG CCAAATGAGC AGTCAAAATT
71401 AATGACGTTT TGCTTTGCTT CATGAATATA AATACTGCAA GAAAATGGAG
71451 GGAATTGTCT TCCTGCCACT TTGGAGTCAT TCGTGATTTA AGTGTGCTGT
71501 TTTCCATGCA TGAATGTTTT CTATGAGAAC TATAAAGTTA CTGAATGTTT
71551 TCAGTAGAGT GACTTGATGT GTCATGTGGT ACCTTTTGTG GCAGGATCTA
71601 GGGACCAGCT TGGGACTTTG TCCTTGGGTT GGTACAGTGT GATTGTCAAC
71651 GGGAGAGGAC TGCAGCTGCC AGGGGGTGGT AATTCTGTCC CAACAACCTA
71701 TAGAACCACA GGGACAGGTG GCAGAGTGT GGGGCAATAG GCAGCCTGCC
71751 ACTCAGTTTT TAATCTATTT CTAGAACATG GTGCAGTCTA GAGACTTGCA
71801 GGGATTTGAT GCCCACAGTA CTGTGTCTGG TCCTGTCTGC ATGTGCTGTG
71851 GCCAGGGCTG TGCTGGGTAG AGGTGGGCGT GTGGGGCAAG GAGCACATGT
71901 GCATCTGTGT GCTCATACTC AGGGTGCTTG CTCTGGAGCA GCTGGTAGTG
71951 GGGTCAGGTG GGGTGGACGT GGAGAGGGAG GGCTCTGCAG AGGCCTTTCA
72001 GGGCTGAAGG GGAAGTGGGG AGACGGGTTT CCAGGCCTCT GTCCACCTCA
72051 ATTTCTAGCAG CTCTGCATTT ACATATTGGA GATCCCCCA AGATTCTCAAT
72101 GGAATAAAAC ATTTCAATCCA GGAATAAAAC TTTTGAAAAC CTGAAGTTTT
72151 CTTTCTATC AGGATGTCCA GCAGACTCAA TAATTATATA TTGTTTGCTT
72201 AGCATTTACC AAGCATCAGG CATTTGGAAG CATTCTGTGT TCTTCTTCA
72251 TGAATCCTCA CTTAGCTGTG CAAGGGATAT GCTAGTTTTA TTATCCCCAC
72301 TTACATATAA GGAGCCCGAG GCCTAGGTAT GCTAAGTGAG TTGTCTGGGA
72351 TTCAGAGTCA GGCCAGTGTG TCTACAGAGA TGGTCTCCAA CTCACCCACC
72401 TACAGCCAAG TCACTGAGTT CTTGGTCTCT GAGCCTGCAG AACAGTTTCT

FIGURE 3W

72451	TGGTTTCTTC	ATCTGCAGAA	CAGGGAAAAT	GAAATTTTTC	ACAAAAATCAG
72501	ACATCACGTG	CAAAGCAGCC	AGGAGTAGAA	CATTGTAGAC	ACTTGGTGAA
72551	TGTCACCTCT	AACCAAGAAA	CAAGACTGTG	CCTTTGGGTT	CAGCTGGCTC
72601	ACACATTTAT	TTTGATGAAT	TAGGTCAGTG	TTTTGTTTGA	TTATCACAGT
72651	GGTGAGGTCC	ATGCAGGTAG	CTGTAGGGTG	GAAGAATCAC	TCATCCTTGG
72701	GTCCTGCTCT	GACACCTACA	GGCTGTGCAG	CCTGAAGATC	TAGGGGAATA
72751	TCTGTTTCTT	CCTAATACCT	GTAGATTAGG	GATCATTGCT	TCTTCCTAAT
72801	ACCTGTAGAT	TAGGGATCAT	TGCACCAGCT	TTCTGGGTTG	TGTTGAGGTT
72851	GAAGTAAAA	GAATACATAC	AGAAGTTCCT	GCTGTTCTGT	GAATATTGTA
72901	ATCTGCACCC	ACTTGTAGCT	TTGTGAGATC	ACTCTTAACG	GTAGTATTTA
72951	AGAACATTTG	AACTCCGCTG	TGGGCTCATG	ATGAACCTCA	TTTCTCTTCT
73001	GGCGGGTGGA	CCTGTGCTCA	TTATCATTCA	ATGAATTGGC	TCAGCATGCA
73051	GGATGGCATG	CTGAGATAAA	CGCTAGCCCT	TACTTTAGAT	TAAATACCCC
73101	CAAAAGAGAG	TGATCAACAG	GAGAAAATCG	AAGCCAAAAA	AGATCATTAA
73151	AGAGTTGTTT	AGGAGCAGAT	ACGTGTTTCAT	TGTTAAATTT	TCCCAGCTGA
73201	AAATCTAAAC	AAACAGCACT	TGAGCTTTCA	GAAGAAAATG	CCATTTGTAA
73251	CATTGAGATT	TGCAAGGCAT	TTGGTGCCAT	GTGAGTGCCG	CTGCCCCCTG
73301	TAGGTGAGTC	TATGTAGACC	ACGAGACAAG	TATTCAATAT	GCAAATTCCT
73351	GATGGCACAT	AGGGAAGGAT	TTAAAAGAAT	GATTCTCATG	CTTCTAATC
73401	AAGTCACAAG	GGGGCAAAAT	GTCCTTTTTT	ACCACCTCGA	CTTTCCTAAG
73451	AGTCCCTAGG	AGAGCATCTG	TAGGTAATAG	TTTTCATCTA	GAATCTGTTA
73501	AATAGGTATT	ATTTATTTTA	CTCATATAAA	TAGTTAGGAT	TAAGGGTTGT
73551	TGCCCTGCAC	CTTAACGTG	GGGGCCGGGG	TGCAGACCAC	TTCTCTCTTT
73601	GGCATGCAGG	TTGTTTGCTG	TGACTACTAC	ACATTTTTCT	GCACTGGCTT
73651	CAGAAGTTAA	GCCTTGCAGG	CATTCTTCCT	GGGCTCCCTG	AGCAGCTGTA
73701	ATCACCCCTGA	CCCCAAACAC	TCTGCACATC	AGTTCACCTC	AATTTTAAAT
73751	CCCTCAGGCC	AACCGCTGTG	GTCAGTCGGC	ATTGCCCTAA	GCTGATGGGC
73801	CTGATTAAAC	CAAGAGTGGC	ACACACTGCC	CTCCAGCCTA	GGATATGCAA
73851	TGTCACTTTT	CTTCTCACGT	TTGCCTAGCT	AATTTCAGT	TACTCTTCCA
73901	GACTCATTTGA	TGAGGCAGGA	ATCGCTTTTT	CTGGGAAGTT	TTTCTTGATT
73951	TTCCATCACA	CGTGGATGCC	CCTTTCTACC	TTTCCCCTAG	AATGCCTTGG
74001	CTTATGCAGT	TATGAATATT	TCCACAAGGT	GGCGCTCATG	TCAGTGTCTT
74051	CCCTGCCCTT	GGCCGCCTTG	CTAGCCCCGG	AGTACACTAG	GAGGGCGCTC
74101	GGGTCTGCCT	GCATCTCCAG	GCCGGGCACA	GTCTCTGATG	GTAATAGCTT
74151	GAACAAATGT	TTGCTGAATT	CATGAATTTT	AACATGTTTT	CCTTTTCTAG
74201	TGTAAGGATT	ATCAAAATTA	AGATTTAAAG	CTTCTCGCTT	CTGAGACAAC
74251	ATTGCCATTA	TTTAATGGTG	GAGGTGTAAA	GGGGGATGCC	GAGCTGTATA
74301	CTCCAGAGCT	CTCTGAGGAG	GGTCTAATTC	AGCGGGTCTC	CCCATGGCTT
74351	CGCATCAAAA	TGGCAAGGGG	CTTTGAAAAA	ACACCCACAC	TTGAGCTCCA
74401	CCTAGGAGCA	AAGAGACCAT	ATAGTCTCTG	AGGGTGAGGC	CTGGTATTTG
74451	TGTGGTTGCG	GGTTTTTTTT	GTTTTTTTTT	TTTTTTTTTGA	GTCTTGAGGT
74501	GATCCCCGAA	TGCACCCAGG	AGTAAGAGAG	GCGGGCGAAA	GTGATCAGAA
74551	GCGACTCCTA	TTTTCTTCCT	GTGGCTCGTT	ATCGTCTCTC	AGTGGTCACA
74601	GTCCTTTCCC	AGGCCACCCC	CTGTGTCCAT	CTCAGGTGGG	ATAACCTCAT
74651	GACAGAGTTT	GGGAACGCTC	AATAGAGTCA	CTTCCATAGA	AAATACGTCT
74701	TCCATTGCTC	AAGCAAGAAG	AGAAATTGAG	CATAGGACAG	GAATATTTTA
74751	ATCATAATAA	CTGAAAAACA	CCAGCAACAA	TATAAACAAA	AAGATTGCCT
74801	GTATTCATTG	GGAATGCAAG	TTTTATCTGT	GTTTTGATTG	TGGTGAAATA
74851	TACGTAACAT	AAAATTTACC	ATTTTAACCA	TTTTGAAGTG	GACAGTTCAG
74901	TGGTATTCAA	TTCAATTCACA	TTGTTGTGCA	ACCATAACCA	CTGTCCAAC
74951	CCACACCTTT	TCCATCACTG	AACCAAAATT	CTATGCTCAC	TAAACAATAA
75001	CTCCTGACTT	GCCCCCTCCC	TCAGCCCCTG	GTTACCACAA	TTCTACTTTC
75051	TGTCTCGATT	AATTAGACTA	TTCTAGGTAC	CTCATATAAG	TGGAATCATA
75101	TTTGTCCTTT	TTTTTTTTTT	TTTGCTTATT	GAGCATAATA	TCTTTAAGGT
75151	TCATTTCATAT	TATATTATGT	ATCAGAATTT	CATTCTTTT	TAAGGCTACT
75201	AATATTCCAT	TGTTACGTAT	AGTCCACATT	TCGTTTATCC	ATGCATACAG
75251	CCATGGACGT	TTGGGTTGTT	TCCACCTTTT	GGCTACTGTG	AATAATGTTG
75301	CTATAAACAT	TGGTGCACAG	ATATCTGTTC	GAGTCCCTGC	TTTAGATTCT
75351	TTTGGATGTC	CAAAGTAGAA	CTGTTGGATC	ACAGGTAATT	TTTTGTTTGA
75401	ATTTTTTGAA	GAATCACCAT	ACTATTTTCT	ACAGCAGCTG	CATCATTTTA
75451	CACTCTCCAC	AGCAATGCAG	GAAGGTTCCA	GATTCTCCAT	ATCCTCACTA
75501	ATACTTATTT	GCTTCTGTTT	TGTTGTATTA	GTTTTTTTAA	TAATAGCCAC
75551	CTAATGGGGA	TGAAGTGGA	TCTCATCTCG	GTTTTGATT	GCACTTCATG

FIGURE 3X

75601 TGCTTCGTGG CCATTTGTAC TTCCTTCTTA GAGAAATGTC TATTCAAGTC
75651 CTTTATTCT ATAAAAATGTT TATGTATTTA TTTGACTTCA CCAACAGAAA
75701 TGGATTTTCT CACAGTTCTG GAGGCTGGAG GTCCAAGGTC AGGGTGTGAG
75751 CATGTGAGTT CCCTTGAGGC CTCTCCTTGC TCACAGATGG CCTTTCCTCT
75801 GCGGCATGCA TTCTCCACTC TCTCCTCTTT TTATATCAGT CATATTGGAC
75851 TTTGCCCAAT TTTGAATTGA GTTGTGTTGGT TTATTCTTGC TGAGCTGTAG
75901 AAATTCCTTA TATTTTGGGT ATTAATCCTT TATCAGATAT GCTATTTACA
75951 AATATTTTTC CCATTCTATG GGTTACCTTT CCCACTCTGT TAATACTGTT
76001 CTTTAATGCA CTAATGCTTT AGTTTTGGAA GAAGTCTAGT TTATCTATTT
76051 GATTTATTTA TTTTATTTT TTATTTTGTG AGATGTAGTC TCGCTCTGTC
76101 CCCCAGGCTG GAGTGCAGTG GCATGATCTC GGCTCACTGC AAGCTCTACC
76151 TCCCGGGTTC ACACTTTCTT CCTGCCTCAG CCTCCTGAGT AGCTGGGACT
76201 ACAGGCACCC GCCACCATGC CCAGCTAATT TTTTGTATTT TTAGTAGAGA
76251 CGGGGTTTCA CCATGTTAGC CAGTATGGTC TGGATCTCCT GACCTCGTGA
76301 TCTGCCCGCC TTAACCTCCC AAAGTGCTGG GATTACAGGT GTGAGCCACC
76351 ACACCCAGCG TACCTATTTG ATCTTTTGTG GTCTGTGCTT TTGGTGTGCT
76401 ATCTAAGAAG TCAGTCTGTA ATCCAATCTC ATGAAGCTTT CCTCGTTGTC
76451 TTCCAAGAGT TTTATAGTTT GAGTTCCTTA GCTTTAGTCT GCTGTTAGAG
76501 AAAGAATAAC AAACCTTCAT TTATCCAGAA TGGTTGAGGG TTGGGGGCAG
76551 AGTATGTCTT TTTTATAAAT TAAGTGAAT AAATTTTACC ATTTCTACAT
76601 TCCTCCATCC ATTAAGAAAG TCAGGATTAG AAAGTAGGAA AATATCTAAA
76651 ACCATGCTGG AAAACAGAAA AGGACATGTA CAATGAAGCT TCTGGGAGAA
76701 ATGTGAGGCT AAGTTTGGAT GGACAGACAG ACAGAGGAGG GGGATCATAT
76751 GAGAAGTAAG AGGATGGTGT CCTCATGGGA GCCCCTGGAC ACCCCTATTC
76801 TCAGAGTGCA GAGATCCAGT GGGCTGAAGG GGGCCGTGCC TCAGACACAT
76851 GCCATCAAGC CCCTACACAG CTTCTCGCA TGGCAGAGAA TGCCCCACA
76901 TCAGGTGGGG GTTGTGTGGT AAGCTCCTGG TTCTGCCTGA CTTCTGGGCA
76951 GTTTCCTCCC ATTAACATGG AGGGAAAGGC TCTATCACAG CCCACTGGTG
77001 AAGCCGCTC TGAAGTGTG AGTTTCCCTG AGTAACTCCC TGGTTTTTCT
77051 GTGGAAACCG CTCAAAGTGG CCACAGGTGT ACCTAAAATA AAGCCTCTCA
77101 CAATTGCTAA CAAAGACCAA TACAAGCCAT CAATGCTGTT CAGCCTTGAC
77151 TTCTGTTTGC AAATATGAGT AGATAATTAA AAAAAGTAAA CCAAGACACA
77201 GGAGTTCCCA CTGAAAGAGT ATAGGAATCA AGAGAGGGCT TTTAAAATTT
77251 CTAGAGTTCA TTCTCAGATT TTAAAAGATG TGGCATCATA AAACAAGAGC
77301 CAGCAGCTGT GAGGAAAGAG TCATTGGAGA GCAAGGATTC CTGTAAATAA
77351 AAGGCATGAC TAGTGAATA ACCTCATGTG AGAGGGTGAC AGCATCGAGG
77401 CTCTAAGTGT CAGTGATACT GTTAGGGTTG CAATGCAGAG GAGTGGATCC
77451 CAAAGCCCTC CTGGAAGAAT CCTCCAGGAA TTCTTCCAAA ATAGGAGCAA
77501 AAGTACAAAG AAATAGAAAT GTCAGTGGA GGAGACTTAT AAATCCAGCA
77551 TGTTCAAGTA GAGTTTCAGA ATTAGAAAAT AACTATATAT GAAATATCAA
77601 GAAAGAAACA GGGCTGGTTG TGGTGGCTCA CATCTGTAAT CCCAGCACTT
77651 TGGAAGGCGA AGGCAGGAGA ATCGTTTGAG GCCAGGAGTT TGAGACCACC
77701 AGCCTGGCCA ACATGGTAAA ACCCCATCTC TACTAAAAAT ATAAAAATTG
77751 GCTGGGCATG GTGGTGCACG CCTGTGATCC CAGTTACTCG GGAGGCTGAG
77801 GCAGGAGGAT TGTTTGAACC CGGGAGGCAG AGGTTACAGT GAGCTGAGAT
77851 CATCCCACTG CACTCCAGCC TGGGTGACAG AGCAAGACTC ACAGAGCAAG
77901 ACTCTGTTTC AAAAAAAAAA AAAAATTAGC CAGCTGTGGT GGTGCACGCT
77951 GTAGTCCTAG CTACTTGGGA GGCTCAGCCA GAAGGATCAC TTGAGCCCAG
78001 GGGATTGCGAG GCTATAGTCA TGCCACTGCA CTCCAGCCTG GGTGACAGAG
78051 TGAGACTCTG TCTCTAAAAA TCAGAAAGAA ACAGGATACA AGTTCCTATA
78101 ATACTTGAGT TTTGAGAGTG ATTCCATTGC CAGGTTTGAA TTTGGGCTCT
78151 GCTACTTCCT CAGAGTAAGC TTTTAAGCAA GTTACTTAGC CTCTCTGTGC
78201 CTCCATTCTC TCATTTGTAA ATTATGGTAG TAATAGTATC TACCTAGTGG
78251 GGTCACGTG AGGATTAAGC AGGTAAATAC AGACAGAGCA CCTAGGACAA
78301 GGCCTGGTTC ACTGTGAATG TTTCTAAAA TGTAGCTGCT GTTAAGCCAA
78351 CCGTCACTGC CACCCTACT CTTAGTTCTT AGAATGTACA GGTATGCGGC
78401 TGCCCTGTGA AAGCTTCACA GTCGGTCCGG TTTACCACTC CAGTCTCTCT
78451 CTCTACCTCC TCTGCCGCAT TGCCACCTCC ACCCCCACCC CCACCCACAC
78501 GCCCCGCGAT CTCTTACCTG GACCAGCAGT AACCTCCTAA CTAGCTCCAC
78551 AGCTTCATTT CTTATCCCA ATAATATGCT CCCTGACCCG TTAGGCTCCA
78601 GGTTAAAAA TTTCTGCAGC TCCCCTTGCA CTTCTGTTCT CCATGGCCTC
78651 CCAGGCCCTG CATGTTGGG CATCCCCACC CCCGAGCCTC GCTCAAGTTA
78701 TTTTCCTTGT GTTCTCTGTG CACTCAGCTT CAGTGGCTTG CTGTCCCATC

FIGURE 3Y

78751 TCACAATCCC GCCATCACGT GTACTTGTCT CTGCCTGGAA GGCTCTTTCC
78801 TCAACCCACC TGCCTCTCCC ACACCATCCT TCAGAGTCCA GCTTAATCAT
78851 CCTTGGTCCA CCCTGGAGGG TCAGATTCTT TCACATAGCA CCCGCACCCT
78901 TCCTTCATAG CACTCACCAC CGTGTGTGCA CCTGCACTAT TAGCCAACAT
78951 TCCACCTCCC TGACAAGCCT GCACCTGGGC TATAATGACT CTAAGATGCA
79001 GATCATGACT GATTTTGTCT ACCACCTTCT CCCCAGTCCC TGGCAGTTTG
79051 CCTGGTATGT ATGTTTTTGT TGAATGAATG AATGAATGAA TGAATGAATC
79101 CTAAGTTTAG AACAACTGTG CCAGGATTTA ATAATAAAAC AATCCCAAGG
79151 GTATTCACAG GGGGTCAGGG GGAAGAACTGC TTCTCTATGA AGGAGGGAAA
79201 AATCAGACTA GCATCAGGTT TTTTCTGTGA ACACTGAATG ATACAGAATA
79251 ATGGAGAAAG GTGTTTAGAG TTCTGAAGAA AAGAAATGGA TCCTAGGATT
79301 TTTTGTACCC CGTGAAATCA TTATGTCTGT GTGAGGGCAA AAGAGACATT
79351 TCAAATATTT TTCTCAAAAA ACAACAACA ACAACAACA CAAAAACAAA
79401 GTCACTTAAG GAAAGCGCTT TAGCCAAAGT GAATTAGAAT AAGAACTAA
79451 AAAATAGGAA GATTGCTGTA CCAGATAAAA TAGTAAGCAA CAAAAGTGGC
79501 AATTTTAACA ATTAAGAGTG GATAGTAACT AACATGACTG TGAAGTTTAA
79551 AGCTGTTTGT TGGAATCTGG AAATAGGAGA AGCAAAGTGA AAATGAAGTT
79601 TTCAAATAAA AACGTTGGTA TATTTGAATG CCTGCTGGTG ACGGAGAGGA
79651 TAGGAAATGG GAGAATAGGT GCCCACTAGC AGATGTAGTC TCATTCAAAA
79701 AGGTAAGGGG GAGGGGGGGC AGAGAGAGGC TTTAATTCAT GATGATAAGA
79751 GAAATATCAG TTCCTTAAAA GCTCCTTAAA CAGTTAAAAA TATTTTAAAT
79801 AAGGAATTTT AAAGGTAACC ACAGTAGAAT ACATATAAAA CAAAACCTTT
79851 TCAACAATTA GAGGAAGAAG AGAAACCAA ATGAATTCAA AAAGAAGAAG
79901 GAAAAAAAGC AAAAAAAGAA AAGTATGTAA TGCACCTAAG ATAAACCAA
79951 ACATGATAAC CACACTAAGT GTGAAAAAAA TTAAATTGCT CTAAATAAAA
80001 CACAGCAGCA AAGCTATATC TCATATAAAA GACATGTAAA AATGTGATGG
80051 AGATGGACAA TAAAGAGATA AACTATAGTA TCCTAAGGAA GGACAGACAA
80101 CAAAAGAGCA GGAGTGTTC CATTCTGTGT GAACAAGGCA GAAGTCAAGG
80151 ACAAAAATAT TGAATGAGAA GGAGAGGAAC ATTTTGTATT GACGGAAACT
80201 ATGTATACTA CAAAAGTACA GCATTTCATCA GCCATTGTGT ATGAGTTATC
80251 AATGAGTCCA AAAACTAAAG GCAGACATAG ATAAAAATAG AAAATTTGAC
80301 AAAACCATAA TCATAGTAGA CATGTTTAAAC ACACTTATCT AAATCTGACA
80351 GATTTAAGTA GACAAAAGGC TGTAGAAAAT GGAATATATA AAAAAGTTGA
80401 TCTAATAATT ATATATAAAA CACTGTACTC AATAGACACA GAATATACCT
80451 TTATTTCAAG TGTTTCATGAA ACATTTATAA AAATTGAAAC TGTATCAGGC
80501 CATAAAACCT TAAAAAAGTG CTTGTATAGG CTCAAAGCAC TACACTAGAA
80551 ACTAACAAAT AATAAATTAC ATAATAATGA TAATTAAAAA GTGGAGTTAG
80601 ATCTGTTGAC AAGTAGATGA CCAGAGGTAA ACTGACAGCA GGGCTGGAGA
80651 AGCATGGATG GTTTGATCCT TGCTCAGAAG CCTGGTCCCT GGCCAGTCTC
80701 TCCCTGTGCT TCCCCATCAG CATTTCAGAG GAGGAACACA GGATTACAAA
80751 GGTCATGGCT GGCTTATGGA AACACAAGCT GAAATTGAAT CTCAGGTATC
80801 TATGCCTTTG TACCTTAGGA CAGTGTGTTT TACCCACAGT TCTTTTAAA
80851 GTGGGGGAGC GTGGACAGTC TTACAGGCAG GTGCCTTGAG CAGCTCCACC
80901 CCCGCCGCCA CCACATTCAT GTCAGTCTTG GCCTGAACAT ATCTTCAGGC
80951 TACACCAAGG TTCAAAGCCA ATGTAAGGTA AGATTGGCT ACAGGATTTT
81001 GCATGCAGAA ACCATCAGCG CTGTTAGAAG CCCCTTGAA GGAGTGAGAA
81051 GGAGAAAAAC CTGTACAGAG GAGAGCGTAC AGGTACTCT AGGTACTTAA
81101 GACCAGGACT TGATGGTAAG AGAGCCTACA GGAAATGTCC AGGAAGAACC
81151 CATAGCTCTG CAGAAGAGGC AGAGGTCGG GGGAAAAGT CCTGGCCATG
81201 GAGTGAGAGT TGGACCACCC CAATCTGCT CTTCTCTTT TGTGTCTTGG
81251 GTGAAAGAGT GAAATGCCCT CCAGGTTCTG ATGTAAGCTC CTTCTTTGTC
81301 CCAAGTGTCCA GGCCTGCACT GGTGACCTTC TCCAGCACTC TCTGTACCTG
81351 TGCTGAACAC CCCCCTGGG GCCCATCTGT CTGCTCTTAC CTGAACCATC
81401 TAGTGACAGCA GACACTTTCG TGGTCTCTCT ACCTCAGGCA GTTACCATAC
81451 TGCTGCCAGG GAAATTTTCC TAAATTTGAC TTTTGATTAC AATCTGGAGC
81501 CAAGGTTGCC TGCCACAGAG TAGGGTGCAG AGTCCTGGGC ACAAGCAACT
81551 TGACAGCCTT GTCACCCATC ATTGCTGCTC CAGCCTAAGA CTTGGCCTCA
81601 CAGGTCTCCC TTCCTCTACA TGGATGCTTC AAAGTCCCTC TCAGATTTCA
81651 GTGTCTCCAA AGCCCTTACT CATTCTAGTC AGATAGCATT TGCTTCTCCA
81701 ACTCCTGTGC TCCCAAAGCT CTCTACTTAC ACCTTTTATA GCATCTGTGG
81751 CACAGCTGTG CCCATATCTG TTCTTCTAAT TAACTAGGA GTTGCCAGAG
81801 GGCAGAGACC ACATTCACTA TTGTGTACC AATACTGAAA ACCAGCAATG
81851 GGCCCCTAAA GAGCTTCTGA ATGAGTGAAT AATATCAAAA GGAAGATGAA

FIGURE 3Z

81901 AAATGAAAGA TAACATCCTT TAGATTGGTG AATAAGAATG CTCTTTTTTA
81951 ATGATTATGC TTAACAAAGA ATGCTTACTA TGTTTCCAGG TAAATATTTG
82001 TTTACATATA TTCAATTAAAG ATTTACAATA ACCGTATAAG ATGATAGCTA
82051 TCTGCATTTT ACATTTGTGT AAACCAAGGC ACAGAACAGT GAAAGTACCT
82101 TCCTGAGTCA CTTTAATAGT AGATGGCAGA GTAAGGATTT GAATTCAAGC
82151 CCTCCAAGTT ACAAGCCTTT ACTCAACTAC CGTCCTTCCC CGCCACACTA
82201 TTTTCATTAAA ATAGGTCTTT AGGAACTCT GAAGATTTCC AGTCAGAAAC
82251 CAACATAGCT TCCATGTGAA ACTAGGAGGT GATGTAATAG CTTCATTAGT
82301 GAATCCCTGA AGAGCTACCA TTTAAAAAT TATTTCACTA GGATTGGGGA
82351 ATAAGTACCT TCTTCACCAT GCTCTGCTAT ATTTTCTGGG TTGGACTAGA
82401 GTGGCTTAGT TTGACCAATT CAGTAGTACC ATGGCCTCTT ACCCAGGCCA
82451 TGTCAAGCAT GTTGACTCTG CCATGCCAG CATATACAAG TAAACTCTGA
82501 AGGGTTTATT TCCCATCAGA GTCTTTTGG TTCTAACTT CAGTGTTAGT
82551 TGTGCCCACT AAAAAATAAT TCATGATAT TTTCCGTATT CAGTTAATTA
82601 AACCCTTTTA TATTATGTTT GGTATTAGG ATCAGATTTT CCATCCTTGC
82651 TCAGCATCCT GATTGTTTCC TTAGAAGATT CAGTTTCTA TGATGGTTTT
82701 TTCACAGTAG AGATTTAAAT GAATTGTTTA TAGATTAAAT AAAGAACACT
82751 TCTTGGAAT GCAGAGTGTT TCACTTTTTT CCATGGAAAA TAATGACTGC
82801 TAAATACCTT TTGAGGAATT TTTAAAATTA GACTTTTACT TAAGTTTCAC
82851 CTTGAAGCAA TTATAAAGTT TCAGTCAGTA GTCAGCAGAT TAACAGACCT
82901 GTTTAACAAC CAAGGCATGC TTTTTCATT TCTTCCACA CCAGAAGAAA
82951 ATAATTCTAA ATTATAATTG GAAGTAAATG CGGGAAGCTA TGGTTCTGTT
83001 TACTACCTAG GAAAGGGTAG ATTTGGAAGA AAATCTATCA TGGCTGTGAA
83051 AGAACACTTC ATGACATATG AGCATTGAGT CTTAGAGCCA TGAATAATTAT
83101 AAAGGAACAC TTGCAGGAAA CAGTGGCAAT TTGGGATAGT AAATAAGCAA
83151 AGGAAACATT CCTTTATATA GCCTTCTTTT CTGCTTCTA TATTGATTTT
83201 AAATCTAGTG GAAATGATTC CTAAATCAAT TTTACTAACA CATTGTTTTC
83251 TCACCTGGAT AGTTTGTAGA TGCCAGGGCT GGAAAGTACA GGGCCAGGGG
83301 AAAAAAAGT AGTTAAGTAG CAGTTTCTG TTTTCAATCA TCAAAACCTA
83351 CATTACAGTA TTTTGTTTT CTTCTATACT TACCTATAAT GTGGTACTGG
83401 GATTTGGGGT TGCAAAAAGA GTAATGTCAT TGGGAATGAC AGAGTAAGGA
83451 CTTCTGAATA TTCTCATCCA TAAAAACAGT GAGAACACTG GCAAAATTTG
83501 TCAAAGTCAA CTTCTTAAGA ACTATGAAA TTAGCTAAAA GTATGCAAGA
83551 ATCTGGGGAG TTTTGTTTT TTTTTTTAAA AAAAGGCTAA ATCTTGGTAA
83601 GAGCAGTATT GTAGTATATC AATTGCCCCT ATTTCCATCC CCTTCTCTCC
83651 ATTTCTTCCA TGGTAGCTTT GAAAACCAAC AGCCCTGTAA TTGTGGTGAA
83701 AACCAGCAGC ATAGCAGTTA CTAGAAGGGC AGAACAGGGT TGGAACTCAT
83751 TCAGAGCTCC ATTTTAAGAG AATTGTCATT ATGTGATCTG TCCAGCAATT
83801 CCCTAGAAAA CCCTGTTTAC AAGGCTTGTC TTTATTTGAC CTCATTCACT
83851 AGAGCAAAACA GGCTTTTCCC TGGGGGCGTT TGTCAAAAAC AGCTTGTGGT
83901 GATTGTTTAC CATCACAGCT CCCTGAGGCA ATAACAGTTG TGGCAAAACA
83951 GCTAAGCAAA AAACCTTCAAT CCGTAGGGGC ATTTGAAAAG CTCTGACATA
84001 TTTCTGGAAG GCCTTGTTGA TGTGTAGGAC TATATGCATG CCCAGGGCTA
84051 TGTGCTTGTT CAAGAAAATC CTTACAAAGT CCTCAGTCTT CCCCTCTTA
84101 GTACTGTGAG CCCCTGTGCA ATCAAGAAGT GAAACTAAA GCAGTTGTAC
84151 ATTGCCTGGC TGAGTGTGTA AAGCATGCCC AAATGGACAC AGAGCATCTT
84201 GGCAAAGACT GAGAGACTCT GGTTCCAGGC ATTTAAGGAA ATCTGTGTCC
84251 AATATTTAGT TGACCTCTTA AGCTAACTGA ACACAGACTT CATTGCCCAC
84301 ACTCAGCAAA GAACACAGAC TTTACAAAGT TAGTTCAAGG AAGTCACTAA
84351 AACGATAATG ACAACAATAA AAGAACAAC TACCTTAGAG CATCTGATTT
84401 CCAGAGTTGT CACATTATAT TATTTCAAAT GTTCAGTTTT CAGCAAAAGA
84451 GTACAAGACA TGCAAAATAA CAAGAAAGCA TAACCAATAC AAAAAAAGA
84501 AAGCAGTTGA TAGAACTGT CCCTGAAAAT GTCTGGACAT TATATTTGGT
84551 AGGTAAAAAC TTTAAATCAG ATATTTTAAA TATATGGAGT CCACTAAAGA
84601 TAACCATGTC TAAATAGCTA AAGAAAAATG GGAGAATGAT GTCTCAGAAA
84651 TAGAGATCAA TAAAGAGATA GAAATTATAT ATTTTAAAA AAGAACCAAA
84701 TAGAAATGCT GGAGTTGAAA TGTACACTAA TAAAAACAAA AAATTCAATA
84751 GAGGGGCTCA AAGCAGTTTC AGCAGGCAGA AGAATTAGTG AATTGAAAC
84801 ATAGATAAAT TGATATGATC CAGTTTAAAG AACAGAAAA AGAATGACGA
84851 AAAATGAACA GGACCTCATA GTCTTATTAT TCACATATAC TAATATACAT
84901 ATTATGAGTC GTAGAAAAAG AGAGAAAAAG GGACAAAAAG AATATTTGAA
84951 AAAAAATGTT AGAACTTCCC AAATCTGTAT GAAAAACATT AAACATCGAG
85001 GAAGCTCAGT GGATTCCAAG TAGGATAAAC TCAGAGATTC ATACCTAGAC

FIGURE 3AA

85051 ACATCATAAT CAGTTGAAAA CCAAACATGA AGAGAATCTT GAGAGTAACA
85101 AAAGAAAACT GAATATGATT AACAAAGGCT CTTTAATAAG CCATTGTTTA
85151 TTAACAAAGA CTGATTTCTT ATCAGAAACC ACAGAAGCTA GAAGGCAGTG
85201 GGATGACAGA TTCAAAGTAC TGAAGGAAA AAAAGAAAAGA TCAACCAAGA
85251 ATTCTGTATC CAGCAAACT ATCCTTCAAA AATGAAGGAG AAATGAAAAT
85301 ATTCCTCAAT AACAAACACC ATGAAAATTC ATTGCTAGCA CATGTGCCCT
85351 ACAAGAAATA CTCAAAGGAG TCCTTTAGGC AAAAGTGAAA GGATGCTAGA
85401 CGGGAACGTG AATCCACATG AACAAATAAG AACACTAGTA AAAGTAACTA
85451 CATAGGTAAT TTTGAAAGGC AGTATAAATG TAATCTTTAT AGCTCTTTTC
85501 TCCTGTTTTG AAAAACAGCT ACATAAACCA GTCATCAGAA ATCTGGTTTG
85551 AGGAGCACAA AATGTATAAA GATATAATTT TTATGACAAT AATAGCCCCA
85601 ATGAGGGGCA AAGAATGGAT CTGTGTAGGG GCAAAGTTTT TTTATCCTGT
85651 TGAAATTAAG TTGTATTATA TCTGAACTAA ACTGTTAGAA ATTGAAATGT
85701 TAATTATAAT CCCCATGGCA ACCTCTAAGA AAATAACTCA AATGATAAAT
85751 GACAAGAGAA TTAAATCAT ACAC TAGGAA ATATTTGTTT AATAATAAAG
85801 AAGGCAGTAA TAGAGAAATA GAGGAATAAA ATAACATTAG ACATGTAGAA
85851 AACAACTTC AAAAGACAA ATGTAATCA ATTTATTGGT AATTACATTA
85901 AACGTAACGT GATAAAAAAC CCAATCAAAA GGCAGATGGA CAGGATGTAT
85951 AAAAATGATC CAACTATATG CTGTCTACAA GACAAACATG TTAGATTCAA
86001 AGACACAAAT AAATTGAAAG CAAGAGAAGA GAAAAAAGTA TATATCATGC
86051 TAACAGGAAC CAAAAAAGAA AAAAAAAGA ACGGGAATGA TTATATGAAC
86101 ACCAGACAAA ATAGACTTTA AGACGAACTG TTAGTAGAGA CAAAAAAGAA
86151 GTTATAATGA GAAAGGGTC ACTCTGTCAA GAAGATATAA CTATAAACAT
86201 ATACGTGACT TACAGCAGAG CTCCAAAATA CACAAAGTAA AAATGACAAA
86251 ACTGAAGGAA AAAATAATTC ATCAATAATC ATTGCAACTA TCAACATCCC
86301 ACTTTCAATA CTAGACAGAA CAACTAGATA GATCAACTGG GATAGAAGAC
86351 TTGAAAAACA CTGTAAATCA ATTAGATGTA ACAAACATCT ATAGAACACT
86401 CCACCAACA AGAATGGAAT ACGCTTTCTT CTCAAAGGCA CAATGGAACA
86451 TTCTCCAAGA TTATATACCA TCTTAGGCCA TAAAGCAGAA CACAATTTAA
86501 AATAACTAAA ATATACAAA GTATGGTCTT GGTTTTATACT GGAATAAAAT
86551 CAGAAATTAA TACCAGAAAG GAGTTTGTGA AATTCACAAA TATATGAAAA
86601 TTATACACAC ACTCCTAAAA AAAATCAATT TGTTAAGAAA TCACAGGGAA
86651 AATTGGGAAA TATTTTGAAG AGAATGAAAA TGGAAAAACA ACATATGAAA
86701 ACCTATGGGG GTACAGCCAG AGTAGTGCTT AGCAGGACAT TTATAGCTTC
86751 ACATACCTCC ATTA AAAAGA AGAAAGATCT CAAATCAATA ACCTAACCTT
86801 CTGCCATAAA AAAACAGAAA AAGAAGAGTA AACTCAAAAT AAGCAGAAGG
86851 AAGTTATTAG ATTAGAGAAA AATACAGAAT ATAAAAACAA TATAAGAAAA
86901 TCCATAAAAA TGTTTTTTAA AAACCAACAA ATTGGGAAAC CTTTACTTAG
86951 ACTGTCAAGA AAAAGGAGAG AAGCCTCACA TTAGTAAAAT CAGGAATGAA
87001 AGCACGAATA TTAATACCAA CCTTACATAA ATTTTATGAG AATACTTTAA
87051 AAAATTGTAT TGCAACAAAT TAGATAACCT ATATGAAAAT GGACAAATTA
87101 TTGGAATGAC TATTA AAACT GTCTCAAAA AATCTAAATA GGCCTATAAC
87151 AGAGAGATTG AATTAATAAT CAACAAAAC TCCCTCAGAG AAAAGCCCAT
87201 TTTCAGATGG CTTTACTGGT GACTTCTACC AAACATTTAA AGAATTACCA
87251 ATTCTTCACA AATCCTCCAA AAAATAGAAG GGAACACTTT TGAAGGAATT
87301 CTACCAAGCC AATGTTACCC TGATACCAA ACCAAAGACA TCACGAAGAA
87351 AAAAAAAGAA AAAAAAACA GACAGACCTA TATCCCTTTT GAATACAGAT
87401 GCAAAAATCC TTA AAAAAG AATACTAGTA AAGTGAATTG AGCAACATAT
87451 AGAAAGGATT ATACACCATG AGCAGGTAAG ATTTATCCCT GGAATATAAG
87501 ATTATTTCAA ATATAAAAGT AAATCAATGT AACACACCAT ATCAATACAA
87551 TAAAGAACAA AAGCTGCACA ATTATATCAG TAGATGCAGA AAAAGCACCT
87601 GACAAAATTC AGCATTCTTT CATGATAAAA AACTAGAGA GAAGATCAAT
87651 AAAC TAGGAA TAGGAGGGAA CTTTATTAT TTGATAAAGC ATATCTATGA
87701 AAAATTCACA GCTAACATTT TTAATAGTTG AATGCCGAAA GCTTTTCCC
87751 TAAGATCAAG AATAAGACAA GATGACCCCT CTACCCATTT GTATACACCA
87801 TTGCACTATA GCTTATAAAA GGCATCCAGA TTGTAAAGGC ATTAGTAAAA
87851 CTATCTCCAT TTATCAATGA CATGATCTTT TACATAGAAA AATCCTAAGG
87901 AACACACACA CATAACTGTT TTTTGTGTTG TTTGTTTGTT TGTTTTAAAG
87951 AGATTTTCTT GAGGGTTTAT TTACATGGCT GTTTGGACAT CTCTGTGAA
88001 AAGGAAACT CTTTTTTTTT CTTTTTTTTT TTATTATTAT ACTTTAAGTT
88051 TTAGGGTACA TGTGCACAAC GTGCAGGTTT GTTACATATG TATACATGTG
88101 CCATGCTGGT GTGCTGCACC CATTAACTCG TCATTAGCA TTAGGGTATA
88151 TCTCTAAAT GCTATCCCTC CCCCCTCCCC CCACCCACA ACAGTCCCTG

FIGURE 3BB

88201 GTGTGTGATG TTCCCCCTTCC TGTGTCCATG TGTTCATC GTTCAATTCC
88251 CACCTATGAG TGAGAACATG CCGTGTTTGG TTCTTTGTCC TTGCGATAGT
88301 TTGCTGAGTA ATGATGGTTT CCAGCTTCAT CCATGTCCCT ACAAAGGACA
88351 TGAACATCATC ATTTTGTGATG GCTGCATAGT ATTCCATGGT GTATATGTGC
88401 CACATTTTCT TAATCCAGTC TATCGTTGTT GGATATTTGG GTTGGTTCCA
88451 AGTCTTTGCT ATTGTTGAATA GTGCCGCAAT AACATACGT GTGCATGTGT
88501 CTTTCTAGCA GCATGATTTA TAATCCTTTG GGTATATACC CAGTAATGGG
88551 ATGGCTGGGT CAAATGGTAT TTCTAGTTCT AGATCCCTGA GGAATCGCCA
88601 CACTGACTTC CACAATGGTT TTAGTAGTTT ACAGTCCCAC CAACAGTGTA
88651 AAAGTGTTC TATTTCTCCA CATCCTCTCC AGCACCTGTT GTTTCCTGAC
88701 TTTTAAATGA TCACCATTCT AACTGGTGTG AGATGGTATC TCATTGTGGT
88751 TTTGATTTGC ATTTCTCTGA TGGCCAGTGA TGAACACACA CAACTGTAA
88801 TGCTAATTAA ATGAGTTTAG CAAGACTGCA TTGATACAAA ATCAATATAT
88851 GAAAATCAAT TGTATTTATA TACACTAGCA ATGAACAATC TGAAAATTAA
88901 ACTAAGAAAA TTTCATTAC AATAGTGTCA GAAATAATAA AATGCTTAGT
88951 AATAAAGTAT GACTTACACA GGAACTATA AAATATCACT GAAATGAAGA
89001 ACTAAATAAG TGGAAAGATA TGTTCATGGA TTAGAAGACT TAATATTGTT
89051 ATGGGTCAGA AGACTTAATA TTGCTAAAAA GGCAATATTC CCCCATTAA
89101 TCTACAGATT CAATGCAATC TTTATCAAAA TTCTGGCTGC CCTTTTGTGTA
89151 AAAATTGACA AGGTATTTGT TTCTAAATTT GATATGGAAA GTGATGAACT
89201 CAGAAAGAAG TTAGGGGATT TATACTTCCC AATTTGAAAA CTTATAAAAC
89251 TACAATAATG CCATCACCAG ATGGAGCGAG ATGCACCTTA TAGTCCCAGC
89301 TACTCAGGAG GCTGAGGCAG GAGCATCCCT CGAGCCCAGG AGTTTGAGAC
89351 CAGCCTGGAC AACATAGGAA GACCCTGTCT CAACTTAAAG AAAGCAAAC
89401 ACAGTAATAC AGTGTGGTAC TGACATAAGG ATAGCCATAT AGATTAATGA
89451 AATAGAACTG ACAGTGTAGA AATAAATCAT TTATGGTCAG TTGATTTTGT
89501 CCAAAGGTTT TAAGACAGTT CAATGGGAAA AAAAGTCTTC TCAAAAATTG
89551 GTTCCCAGAG TTATGAATAT GCTAAAACCG CCCTTAATCA TACCATATAA
89601 AAGACAAGT TTTAATATAT GTGAATTATA TCTCAATAAG GAGGGGTGGT
89651 GGGCAGGAAA GGTGGAAACA CACAACATTC CAAAAGGCAG TGATGCTTT
89701 GCTGGGAAGA GGTATGAAAG GAGAGTTGGC CGGCTCAGAA TTAGAGGAGG
89751 TCCCACACAT ATCTTTCTTT CTCCAGCAAG TTCCATGACT GCACTGTGTG
89801 TATATACTTT TTAATATGAA AGTTGAAATC TCTTTTCTT ATTGTTTAAAC
89851 GTGGGGGGGG AAAGAGAGGC TTTTGAAATT ACCTGATAGC TATTGTTAAC
89901 ACTAAACATG TGTCAAGAGC CCAATACTCT AGGACAACCTA CCCAGAGTGA
89951 TTATTACACA GAAAAAGCTG TTAGTATCTT TCTTGTGGCC AAATATAAA
90001 AGTCTTTGTTG CCAAAAGTCA TCGTTTAGAA ACTGGAACCTA GTTCTTATTT
90051 GTAACAGCCT TGCTGAGATT AGATGATGTA TAGTTGGAGA AGAGAGAATG
90101 TGGCAGTGGG ATGAGCCTAT GGAGGTGAGG CTAAATTGAT ACTTACACAA
90151 TAGAAGAACT GAGAAGCACT ATTGATACTG TTAACCTGTG CTGAAGGAAG
90201 AAGAGGAGGC TTGCTGTA CTCTCCTTTT CAATATTTCT GCCTTTTGTG
90251 TGGGGGTGGG AGCCTTATTT AAATGGCCAG GATCTCCAGG ACTTTGTGTA
90301 ATAAAGTCA AGAGCAGCCA TCCTTGCCCTC ATTCCAATCT TCAGGGATT
90351 AACACTCAGT CTTTACACAA TTAAGTATAA TGTGTCATT AGGTATTTTT
90401 GTAGATGCCC TTATTAAGTT GAGAAAGTTC ACTTCTAGTC TTAGTTTGCT
90451 GAGAGGCTTT TATTTCTTCT TTTTATTATT ACTAGATGTT AGATTTTGTC
90501 AAAGCATTTT CTCCAGCTAT TGTGATAGTC AGATTTTTTT TTTTAGTCTG
90551 CTAATATGGT GAATTACATT GATTGATTTT GAAATTTTAA ACCAACATTG
90601 CAATCTGGAG ATAATCCTCA AGTGGTCATG ATTTATGTG TTTTATTGT
90651 TGAATTTGAT TTGCTAAAAA TTTGAGAATT TTTCTGTGAT CATGAGGATT
90701 ATTAGTCTGT AGTTTCTTGT TAATGTTTTT GTCTGGTTTT GGTATCAGGG
90751 CAATGCTGGT CTTACAGGAT AACTTGAGAA AGATTCCTCT CTTTCTATT
90801 TTCTAGAAAA ATTCATGTAG AATTGCTGTC ATTTCTTCTT TAAATGCTTG
90851 GTAGAAATTA CCAGTGAAGC TCTCTGGTCC TGGAGGGTTG TGTGTATGTG
90901 TGTGGAAGAT TTTAATTATA AACTTAATTT ATTTGATACA GGGCTATTTT
90951 ACATTATCTA TTTTCTCATG AGTGAGCCTT GTAGCTGTG TTTCAAGGAC
91001 TTTTCTTATT TTGATCTAAG TTGTCAAATT TACTATCATA AAAAGTTGCT
91051 TATAATAGCC CCATATTATC ATTTTAAGGT TTGTAGAACC TATCTCTTTC
91101 ATTTCTGAGG CTGGTAATTT ATATCTTCTC TTTTCTCTGA TAAGCATGGG
91151 TAGAGTTTAT CAATTTTATT AACTTTTTTT TCCTAAATGA CTAGGTTTTT
91201 ATTTCACTTA TCTTCTCAAT TGTTTTCTAT TTCTACTTTA GTCGTTTCTG
91251 CTCTCATATC TATTAGTATA GTCGTTTTCT CCATTTACTT TGGGCTTCAT
91301 TTGCTTTCTT TTTCTAATTT ATAAAGGTAG GAGCTTAGGT TATTGAATTC

FIGURE 3CC

91351 AGACCTTTCT TATCCAGTAA GTGCTTAATG TTTTCTAAAA ACTAGTTTCC
 91401 CATCTAAACA CTCCTTTAGA TGTATCCTAC ACATTTTGAT ATGTCTTGTT
 91451 TTCATTTTCA TTCAGTTAAC CACTTTATCA TTTCCCTTTT GATTTCCTCT
 91501 TTGGTTTGTA TTTTGCTTAG AATTATATTG TTTAGTTTCC AAATATTTGG
 91551 GATATTTTCC AGGTATCTTT GTATTTACTG ATATCTATTT TAATTCCACT
 91601 GTAGTCAGAA AACATATTTT GTACAATTTA AATTATTTTA AATGTATTGA
 91651 GACAGATTTA TGGCCAGAC TATGGTCTAA CTATCGTGAT AATGTTCCCA
 91701 TGTGTACTTT AAAAGATTGT ATTCTGCTGT TGTGGGTGG AGTGTTCTAT
 91751 AAATGTCATT TAGGTGTAGT TGAAAATGTT ATTTAAGTCT TACATATCTT
 91801 TCCTGAGTTT TCAAGTTTGT AAATTTTTCa GTCGTCATTT CTTCAAATTT
 91851 TTTTCCCTGT CTCCCTCATT CATTACCTTT TGACTCTGTT CCTGTGACTC
 91901 TGTACGGTGT GTGTGTGTTG GTCTTGCTTT TTCTGTTTCA TTTTGGTAGT
 91951 TTCTGTCATT ATGTGTTTGA GTTTACTCAA CTTTATTCT GCAGTGCTC
 92001 CTCTGTGCT AATCCCATCC AATGTATTTT TCATCTCAGA CATTGTATTT
 92051 TTCATCACTG AGGTGTCTTG GGCATCAGGC ATTTTGAATT TTATGTTGCT
 92101 AGATACTGGA TGAGAGAGAC ATATATGTAT ACACACAACC ATACATAAAA
 92151 ACACATATAT ATGTAATGTT ATACTATATT ATAAATACAT ATGTATTCTT
 92201 GAGCTTTGTA CTGGGACACA ACTGAGTTAA CTTGGAAAACA TTTTGATCCT
 92251 TTCCAGGCTT GCTTTTGAAG TTTGTTAGGC AAAACCATCT CAGCCTCTAG
 92301 TTTAGGCTA ATCAATTTGA CCTTACAACA GGCACGATAA CCTTCCAAGT
 92351 TCTCCTCCAG GTGCTCCAGC TGTTACTAGG TAGCTCCACT CTGGCTACTG
 92401 AGAATGGGAA CTAGTCCCCT CCAGTAATTG ATTCACCTGC TCCTTGCCAG
 92451 TGTTTCTGTA CCTGGCTGTA GGTAGTTGTG TGAGCATTTG CTCTTCATAC
 92501 TCAGTTGAAG AGTTGAGGAG AGCTGTCTAC AGATCAGCAG AGTTCTTCCT
 92551 TCTCTAGTAC TCCACCCTGC ATATCCTAGT TGTCTTGCC TCCTCAAATT
 92601 CTCAGTTGTT TCCTCAATTC AAGGGGACTG CAGAGCTTTC CGGGTCCCC
 92651 TCCCTGTGGT GTAGCTGAA AACATACTTC AGGCAGGAAG CTGGGGCAGT
 92701 TGTAGGGGTC ACATTTCTCT TTTCTCAGAG ATCTCTGTCT CATGTGCCTC
 92751 TTTTCCAATG TCTGAAAAT TTTTCAATC ATTTTGTCTG CCTTTTCGTT
 92801 ATTTAAAACA AGTGAGGAAA AACCACTCCC TATTGCAATT TTGTCCAGAA
 92851 ATGTAAATAG CTTGTTGGAC TTTTAAAGTC TTACAAATTT TCTACTCAGT
 92901 AATCAGTAAT CATATATGGA GGTAGGCCCT ATCCCTCTGC CTGAGAGGGA
 92951 ATAGTTATTC CTGAGTATCC ATAGGGAATT GGTTCAGGA CTGCTACTCA
 93001 TACCAAATC CATGACGCT CAAGTCCCTG ATATAGTGTT TACATATAAC
 93051 CTAGGCAGAT CCTCCTGTAT ACTTTAAATC ATCTCTAGAT TACTTACCTA
 93101 ATACAATGCA AATGCCATGC AAATGTTGT TATACTATAT AGCTTTAAAA
 93151 CTTGTATTAT TTTGACTGGC TGCTGTAGCT CACGCCTGTA ATCCAGCAC
 93201 TTTAGGAGGC CGAGGGGGGC AGATAACTTG AAGTCAGGAG TTCAAGACCA
 93251 GCCTGGCCGA CATAGTGAAC CCCCCTCTCT GCTAAAAATA CAAAATTAGC
 93301 CAGGCCACG TCTGTAGTCC CAGCTACTCG GGAGGCTGAG GCAGGAGAAT
 93351 CACTTGAACC CAGGAGGCAG AGGTTGCACT GAGCCGAGAT TGTGCCACTG
 93401 CACTCCAGCC TGGCAACAA GAGTGAACT CTGTCCAAAA ACAAAAAGC
 93451 CCTATTATT CTTTGTGTAT TGTCATTTT TTGTTTATT TTCAGATATT
 93501 TTTAATCTGA GGTAGTTGG ATCTGCAGAT GCATCTGCAG ATACAGAGGG
 93551 TGACTGTGTA TCCTCCCCAC CTAGCTCTGC TGAAGAAGTC AGGAAATCCT
 93601 GCCTTCTCAG TGAACAATCA TTTTATTTT CATTTTCTT TTTACTCAGC
 93651 TGACCAGGC AGAAAATCCT ACTCCCATGA CTTTCGTAA CATCTCCAAA
 93701 GTAACCAACA TCTTTAAAGA TAACGAATCT CACTAAAAA GGAAAGATAT
 93751 AATACTGAA GTATAAATAC TTGGAATTAC CCAAGAAAAC ATCTTAGGTT
 93801 GGAAATCAAT GGTTTAGGAT TCCCTTTACT GTGATTTCAG AGGGGAGAAC
 93851 TCTTTAATC TGCCCCCAGC TTCACAGCGG GTCAGATTCC CCAAAGTAA
 93901 CCCAGGGGTT GACCTAGTTA ACATGCAGTC TCTCCTGCCA GCTGTGACCT
 93951 GCTTCCTTTC AAGAGATCAC TGAGCAAAGG AAATTGCGTT AGCTGATTGT
 94001 GGGGCACTG AATTGTGCTC CTCCACCCCT TTGTATTAGA GAATAGAAAA
 94051 ACATTTGGGT ACTGTGGAGA GCCACAGGCT AACATGTCTC CAGGGTGCTG
 94101 GCCTTTTCCAGG TGCGACCAT TCTCTAGTGA CACCAGGAAA GGAGACCTTG
 94151 CTGCAAAATG ATGTATAGCT TCACAACCTG CTGTTAACTT TACATAAATT
 94201 GTAGATTTTG CCATGTCATT CTGTGTGAAG CGCTGGAAGG ATATTCTGT
 94251 GCTAAGGAAA GCAACAAAAG AATCTGAATC CTTCACTGGT CGTGATGGTT
 94301 AATGTGTTAA AGTCTTAGGG GAAAATGAAG GAAATCAGAT CCAGGTGGCT
 94351 CCATATCATT TCCAGAAATC ACCTCTGCAC AATTGGATC CCATGTTTTT
 94401 GAGAGAATGG GGAAATACAA CCAGTATCCT GAAGCCATGT GAAGAATGTA
 94451 TCAGGAGTTT CAGTATGACT GAGAAGGGTA GGCTCTCATC TGAATTTAAA

FIGURE 3DD

94501 AAAAAAAAAA AAAAAAAAAAG GATAAAGCTT ATTTATAAGC ATGTGGGAAA
 94551 AAGCAAGAAA TCTTTAACA CTAAAATCTG ATCTGACCTG TTGGAAAGGA
 94601 CACTACGTTA TCAATTTGAA CCTCTGGCTT TGTTTGAGGT GTCTGGTGGT
 94651 TGTCCTAGTT GTGTCTAAGG AAGGCTGTGG ACTTGTTACC AGAGTTGCTA
 94701 TCACATGTAG GTGTCTGGC TTTGCTACCT GGAACCTTCC CAAACCTTTT
 94751 ACATCTGTCA ACCAGTATTC TTTAGCCAT AAATGGTGGC TGGCATCACC
 94801 TGCCCTCAT GATCACACTG ACAATAGTAT TTTATTTAT ATATTGCAGT
 94851 ATCTTTTGAA CAGTGCTTTG CAGTCAGTGG AGTCTTTCCA TACCTCAATT
 94901 TTTCATCAA CATTGAGTTG AAGTGTTACA CTCTCTCGC AAATAAAGAA
 94951 ATGGGGAAGT TAGAAAATCA AGAAAGGTTA AATGAGTTGG CCAGTGTCCC
 95001 AGGGGCAGGG ACCTAGGCAA AAACAAAAGG CTTCTAATTC CAAATCCAGT
 95051 ATTCTCTGCT AAAATGTGCC ACCTCCCTCC CTTTAGGGTT GGTGGAGGTA
 95101 TCGATACTGG GGCTAGTCCT ACAGCTAATG CTTTATGATT CTTGTCTCTG
 95151 CTTCACTCAG CACCTGCTGT ACCATGTTAT GTTTGTAAGT GGCTTAGTGT
 95201 TAACTTTTCT CCAAAGGCA GCAGGGTCTG GAACAGGAGA CTGGCCAGT
 95251 CTGGCATCTG GAGAGGATGG TGGTGTGGT GTTTTCACAG CTCCTCCATT
 95301 ACCACTGGT ATCATTTAGT ATTACTTTGC AAACCTGAATC ATAAATCAAC
 95351 TCATTTAATG TAGAGAAGGG CAAAAGTTGC TGAGAAATGT TTTGTGGGTT
 95401 GGTGCCCCGA GCTTCAACTC TGGGAGGGTG CCTGACTTGA CAGTATCACC
 95451 TTAGTCACTA AGGAAAAAGA GATCCAGGGC TTCAGACCTT CAAAACAATT
 95501 ATTACTTGCT GAGATGGCAA AAACAATTGT AGAGTGCTTC AATGGCTGAG
 95551 CTTTAAACAG TTTGTAAAC TACAGATTAA ATACGAATGA TTCTTTTTC
 95601 TTTGAGACAG GGCTTCATTG TGTTGCCAG GCTGGAGTTG CAGTGGCACA
 95651 GTCATAGCTC ACAGCAGCCA CAACCTCATA GGCTCAGGCA ATCCTCCAC
 95701 CTCAGCCTCC TAAGTAGCTG GGACTACAGG CACGCACCAC GTGCCACAAC
 95751 ACCCAGCTAA TTTTGTATT TTTGTAGAG ACAGGGTCTC ATTATGCTGC
 95801 CCAGGTGGT CTTGAACCTC TGGGCTCAAG AGATCCTTCT GCCTTGGCCT
 95851 CCCAAAGTGC TGAGATTACA GATGTGAGAC ACTGTGCCCA GCCAGTAATG
 95901 ATTTTTCGTA TGACCAAAACC ATTGAAGAAA ATTTACACTT ATTTTGGTA
 95951 AATGAAATAC CAAAAAATA CTTTATCAGA TGATGGCCTG ATATCTCCTG
 96001 CACTGATTTT TGCCCCACAT ACCCTTTTTA GATTGAACCA AATTAGAAAT
 96051 ATAAACCAGA TGATTAAAAA TTAGGTATGA TTCATTTTCC AGCTAATCGG
 96101 CTTTACTTCT GTTGCTCCCT CTTCTAAATG CAAAATGAAT CCAAGCAGTG
 96151 CTGGATTTAA GGAAGCATAC ATAATTAATA TTACAGGGCA GGCAGGAGAG
 96201 CTGGGCATGT GGTCTCATAC CCCACATGTA GTTAGGTAAG CATGTATGTT
 96251 TTTAGCTGCT ATTTATTTCT TAGTTATTCC TAGTGGCAA TGTGGGGGGT
 96301 TGATGATCAC TGTGAAACAG CAGCTTATAA AATTCACCCT TTATTATCAA
 96351 CAGACTAAAC TTCCTATTTT GCGTAGATGC TCCTGTGCAC GCCTTTATTT
 96401 TACACGGAAT GTAAATATT GTAATGACTG ATTTTCCTTT GAGACTGTAA
 96451 TACAGGTAAT GTTCTTATTC AACTTTGTAA ACCAAGACCT GACACACAGT
 96501 AGGTATTTTA AAAACTGTTT TGATGTGACC AAAATTATAC AGAAAAAAG
 96551 AGAAGTACAC CAGGATTTTA AAGTCTCTTT TTTTTTTTTA TTTTTCACAA
 96601 AGGATTTGCT TAGTCTTTC AAGTCATTTT GTCCAATCCA AAAGCTGTAT
 96651 TTAAGCGTCG TGGATCCCAG CCAGGGATGC AAGAATCTGA CTTTCTCAAA
 96701 CAGATAACAA CAGTCGAAGA ACTGGAACCG AAAGCAAATA ACTGCACTAA
 96751 GGTATTCATT AACTTGTGTC TGCCCGACCT CGAGTGTAC CATGAAGAGT
 96801 GCGCTACCCA AGCTATTTCC TTCCCTTCA GGTCTCTGTG TGGCACACTC
 96851 GGACAGAGAA GGTAAATCTA GCCAACGAGC CAAAGTACCA CCTGGACACA
 96901 GTGAAAATTG AGGTATAAAT TGAAGCAGCA ACTGGTGCAG TTTGTCCAGC
 96951 CAGTGGATCC ATATGGAAGA GGATGTTGG AGTTTAGGCT ACAGAGCATT
 97001 CAGGTATTGT TTGTTTACT TCAGTACAGC AGCCTTTCTT GTCATCTGAT
 97051 GGACATCTGT TTAATGGAG CTTGTCAGTT AACATAAGCT AATTGGATGG
 97101 TTGGTACAAA ATGTATGTTT TGTCTTCATT TGTCTGTCAT GTTTCTCTA
 97151 CAACAACATA ATTGGAAGAT TTTTGTGTAC AGTGCCGATA CTGCAAGATA
 97201 CCACTCTTGA GTATATATTT TTTCTTTTTC TCCAATTTGC CTTATAATT
 97251 GGTAGACTTG AACAGGTTGG TAGACTTGAA CAGGTTTTTA AAACAGACAA
 97301 GTATTTTGTG AGCTAAACGT TCCTGATGAT TCCTGACTTT GCAATACTAA
 97351 GTAATTTTGT GAAGGTTAGT GGCAGTATAC ATCATAGGAA ATAAAAACCC
 97401 ACAAATGAAA AGGTCTATGG AGTCATGTTT AATGTAGGGA AATAACATTT
 97451 TGTCAATACT AGGCACCATA AAATGTAAAC ACAATTACTG TCATAAACCT
 97501 AGATATACCT TCAAGGATTG AAGATTGAAA GTGGCTTTGT TTTAGTTAGT
 97551 TACCCTGTTT GCATATAGTG CAGAAAAAGG TCTTCATGTT AGCACTATGT
 97601 ACATTAAGAA GAGATCCAAA TTACAAGAGA GGCAGATAAA ATTTGAATTC

FIGURE 3EE

97651 TTTAAGCATT CATTAAACGA AGTTTTGGAG TAACATCCAC GTTTATCTTC
 97701 CTTTCACTAA TCACGTTCCC TGTTAAGCAC ATCATAACAA CAGCACAGTG
 97751 AAGTGAATGA TGAAATAAGA GCATTTTGAT ACACTAGAAA ACAGTGCTCA
 97801 GTGAGACATT TACATTCTAT TTATATGATT AAACATTTGA TCATACAGTA
 97851 CCTTCCTACA GGATTACTGG CTAATTTTGG GGTGGGGTTT ATACTATTAG
 97901 AGGTATTACT AACATGATAA CTACTTCCCT TATATGCAA CATTAGAGCT
 97951 ATAATTTTAT TGAGAGGAAA ACTGATTTTG CAAGTTGAGC AGCTTCTCAA
 98001 ATAATGCAGT ACATGAAATC ATGGGAAATA TGAGCAAAGC TGCCCTTGAC
 98051 ATAAAATGAT TTATCAACCT GCTTTTCACC ACATCAAATT GAATCAGTAC
 98101 AGACCAACAC GGTCAATCAG ATCATTCTTA ATATGAACAA ATGGGTAAAA
 98151 AGAAAAAATA TATGCATATG AATAAACAGG GGAAGTAGAT GCGTTTCAGC
 98201 AAGGAATGTC AGGTGGTAGT TCTGGATGAA ACTTGATTG CAGTTTTCAT
 98251 TTCCACAGTT GTGTGCTGAG AGTCTGACCT GATGAGCTTC CAGACCATCC
 98301 TGCTGTTGTG CTGGAGGGCT GGCCAAAACC TGCAGTAGGG GTTGCACTAC
 98351 TGATACTCAT GCCAGCCATC TGCTGATTCA TCTGTGAAAC ATATAAAGG
 98401 CTTAGTTCAA GAGGCTTACT TCACTTTTAA TTCTTGTTTC TTTAGCCACA
 98451 CAGTTGGTCA TTTTTCATT AATGTGACAA CTAGTCCAAG CACTGGAATA
 98501 AAAACAGAGT ACCATACAAA TATTTCTTAA AGCAAATAGC TACTTTGTTC
 98551 CCTTCTTTAT CTACTTTCTA GATACAGTTT CCCCAGAGT TAACCACAAC
 98601 TTACTTAAAA AAAAATACCA AAGCAATCTT GGGATTTTAA TGAGTCCGCT
 98651 ACTCTAACTA ACTTTCACCT ACACTAGGAT ATTGTGCTTT AACTACTAAG
 98701 GAGTAAGAAA ATTTTAGGAA GTAAATAGT CTAAATATAT CCTATAAACT
 98751 TTGTATGATA GATATTATTC TCTATTAAAA TCTTATATAC TTCCTAAATA
 98801 TTTTAAAGT GGTCAATAAG CATTTATTTT TCTCGCTGAT CTAACAACAT
 98851 AAACATCTAA AATTTATTTT CATTGTATGC AATAAAGCAT AAGATTACAT
 98901 GTATTTTCTT TCAAGACTGG AGTCAAATAT ATATATATAT AAGCATCTTA
 98951 ACCCTGTGAT TCTCTTACTT CCAAAATGG TGATAAGAGA AGGAAAGGCA
 99001 AGATTTACCA TATAGTGAGT GGGTTTAAAA CTTACACTCA GAGTTAGACT
 99051 GTGTTCTTAA TTTAATACAT TTGACTTGAC TTATTTACAG TTTCAAAGAC
 99101 ACTAACATAA ACTACATCAC TAATCAGGCA TAAGTGTCTG AAGAAGCAGA
 99151 TCACGCTCTC ATACCTACTA AAGGACATTT TAACCACCTT GTCGTTGGCC
 99201 AGTAGATTGC ACTGATGGAG TGCTGGAGAA CAGCATCACC CTTCTGCATT
 99251 ATCTGGAAGT AAGAGCCAGT ATTAATCCTT TCCTGGTTCA TCTAGCACCT
 99301 TAACCTGAGC TGGGTGTGCT TCAGCATGTT GACCATGTGA CTGACACTTA
 99351 GCACATACAA TTTTFTAGAT TCCCAGCGGG TAGAGACCAA TGTTTACCT
 99401 ATATTCTTGT AAATGGTGGT AGCAAAATTA ACTGTGATAT ATAGTGATTG
 99451 TGCTAATGTT AGAAATCACT CTAGACTATT CCCTGAATGC TCTAAAGGTA
 99501 AAACAAGTGA CCAAACAGAA ACCAAGATTG CCAAAATGCT GGAGGAACAT
 99551 CAATGGGAAG TGTAAGGA AGAAGAGTGG GAGCATGAAC CTCTCTAAGA
 99601 GCCTTTGTCT GTGCAGCTAG AGAAAAGTCA GAACACAGCA CCTGAAATAG
 99651 AAATGTTCTA TCTCAGCTCT AACTTAGGTA GAAATAGGAT TTTATAATAT
 99701 GAGGGGATGT CTGGTTCACA CTTATGGGA ATTGAATCTT TTTGTACTCT
 99751 TTTTAAACAT AAAAGTCATT ATAGGGTATG TAAAAAGAAA ATACAACCTT
 99801 ACAAAGGTTT CTCAACAAAA AGAATTTTTA CAGAGCCATG GGGCAGTAAT
 99851 CATCCGACCT GAAAAACAGC CTTAGATCCC TCATAAAATA GTGCTTTGAG
 99901 AATATGAGGC TAGATT (SEQ ID NO:3)

FEATURES:

Start: 2614
 Exon: 2614-3204
 Intron: 3205-64312
 Exon: 64313-64457
 Intron: 64458-96602
 Exon: 96603-96751
 Intron: 96752-96831
 Exon: 96832-96915
 Stop: 96916

CHROMOSOME MAP POSITION:

Chromosome 6

FIGURE 3FF

ALLELIC VARIANTS (SNPs):

DNA				Protein		
Position	Major	Minor	Domain	Position	Major	Minor
899	A	G	Beyond ORF (5')			
1196	C	G	Beyond ORF (5')			
2600	A	G	Beyond ORF (5')			
4797	A	T	Intron			
6461	C	A	Intron			
6543	-	T	Intron			
8419	G	A	Intron			
8636	T	C	Intron			
17222	-	C G	Intron			
49439	A	T	Intron			
49612	G	T	Intron			
69716	G	A	Intron			
69742	G	A	Intron			
69920	C	T	Intron			
70038	C	G	Intron			
70956	C	T	Intron			
71021	A	C	Intron			
71547	G	C	Intron			
71592	C	G	Intron			
71601	G	A	Intron			
72024	C	G	Intron			
72161	A	G	Intron			
72259	C	T	Intron			
72363	T	C	Intron			
72639	G	C	Intron			
72698	T	C	Intron			
72716	C	A	Intron			
86903	C	A	Intron			
89261	C	T	Intron			
95175	T	C	Intron			
96648	T	G	Exon	261	V	G
99242	A	G T	Beyond ORF (3')			
99349	T	C	Beyond ORF (3')			
99443	A	G	Beyond ORF (3')			
99867	T	C	Beyond ORF (3')			

Context:

DNA

Position

899	TTCAGGGGTAGGACTGGGAGAAGAGGAGCTGTTCAGAAAAGCTGGAGAGCCATTGCCCCCA GAGCTCTCAGTTGCACCAGAACGCACAGTCGGAGAGAGATTTATTTGTGAACAGCCCGA GAAAGGCAGACAACCCAGACAAGATGGGCTCAGAAATTATTTATCATAGGCTAGGGCAGA ACAGTCTGGAGCTTTCTTCTGCTTTGCAAGCACTTCCCTGGGACCTGCCTGGGAAGCAC AGCCCTTCTTCTGGTAAGTTACAGAAGGTCAGGCACTCAGCTAGTAGGCCAGCTAGACA [A,G] CAAAAAGTGTCTAAACTAAGTGCCAACTGTTTACTTGGGGTCTTCCAGACCCTATCATGG TTCTATTTCGTATGGTACACTCTGTTTGATTTCATCGCACCATCTTTATATGTAGGAAG GCCAAACCGGCCCGGCTGTGTTGGGTGGGATTTCTGCAGGCCATGCAGTGAGGACGCCAC TAGCTATAGACACACGCAGGAGACCCACGTTCTATTTCCATATGCCACTTGCCACTGACC TCAGAGAAATCATTTTAAACCCTGAACCTCAGCTTCCTTATCCTGAAAATGAAGGCCATT
1196	ACAACAAAAAGTGTCTAAACTAAGTGCCAACTGTTTACTTGGGGTCTTCCAGACCCTATC ATGGTTCTATTTCGTATGGTACACTCTGTTTGATTTCATCGCACCATCTTTATATGTAG GAAGGCCAAACCGGCCCGGCTGTGTTGGGTGGGATTTCTGCAGGCCATGCAGTGAGGACG CCACTAGCTATAGACACACGCAGGAGACCCACGTTCTATTTCCATATGCCACTTGCCACT GACCTCAGAGAAATCATTTTAAACCCTGAACCTCAGCTTCCTTATCCTGAAAATGAAGGC [C,G] ATTCTACTTCTTAGGCCTTCTTGACAGGAGCCTTGGGAGAGCCAAACGGAGTAATTCCGG

FIGURE 3GG

TGACAGCGAAGAACTGGGAGGGACCGTGACTCCAAATTACTGAAGAAAAATAAGTTAAAC
 ATGCTCGGCTGGAGTTT TAGGAATTCCACCCGCCCCACCCGCCATGATCAAACCTGCAGT
 CAGGCAGCAGCCCTCCGAATTGATTCTTTCTTATGGACTGTCTCACATGCCAAACACCTA
 TGTGCAGCACCCCTCCATCTCCGTGGGCTCCTATTGATGTCTGCCTTGCAAGTAAAGCGC

2600 GCACTCGGCACAACTCCGGGACCGCGCGCGCGGCTGGACCGAGTCCCGCTTCCCGCCA
 GCTCACCTGGAGTCGGGGGAGCCCTGCCCCGCCGCTGCACCCCTTGTCTGCTCTAGCT
 TGCGCGAACCTGCCGCTCCTCCACGCCCAGGTAGTGAGCCCCGCGGCTCCAGGTCTCTGC
 AGCGCCCTCGGCCCCATGGACAGCGCACCCATCACCACTCCCTAAGTGCTGGCGCCGCCG
 CTGTCCAAGCTGCGCACTGGGGTCCCTCGGCTCGCCCTCTCTGGGGTGTCCGAGAGGCC
 [A, G]
 GGGAGCGTGCACCATGAAGTCCGCGCTTTTACCCGCTTCTTTATCCTCCTGCCCTGGAT
 CCTAATTGTTCATCATCATGCTCGACGTGGACACGCGCAGGCCAGTGCCCCCGCTCACCCC
 GCGCCCTACTTCTCTCCCTACGCGGTGGGCGCGGGGGCGCCGACTCCCGCTCCGCAG
 GGGCGGCCCCGCTCACGGGACCCAAAAGCGCAACCAGTCTCGGCCGAGCCACAGCCGGA
 GCCGCAGCTGCCACCATCTATGCCATCAGGCCACCTACAGCCGCCCGGTGCAGAAAGC

4797 TTGCTTTCTTAACCCAGGGCAGAGCTATTCTGTACTCTTCCAGTTTAATTTTTCTGTGT
 GGCTTTAAAAAATTTTCTTAAAGGTAATTGCCGCTTCATTTCTATTATCCTCTCTTT
 CATGAATAAAAGGCACAGTAATTGTCCTTCATCTTTCTTTTCCATCCTTTCACTGTAGA
 GGGCTTTCTTTCCACGTTTCTCCAAATGAATAAATAAGCTTGGCATTGTATAGTATGGTC
 CTTACTCAACCAAGATTAGAGATACCATCTGACGTTTTTAACTGGGCTTTTAATCCTGC
 [A, T]
 TCAGTGCTCCCCCTCCAAAAGAAAAAGTGGCTTGCATCTGAAGCAAAGACTGTACATT
 TCAATGCACCACAATTTTAAACCGCAAGGTCTTTTATTTTCTTCTACAACCTCGAAGT
 TGCTCGTCTGTGACAATATGTGGTCTTGTGAAGTAAATAGTGCACATTACTGTAAAT
 GAACACTGTAGGAGGCTAGATTGTGAAGGAGGAATGATTTAGTTTATTCCGAGCTCTAG
 CCTCTTGGTGTGAGGTGTTAGAAGAATTGGCACACGCAGGCAGTGAAATGATTACAGACA

6461 ATGGTGCTTTGTCTATCTCATACAGCTAACTAATTTTCAGCCTTTCTTTCAACTGATCTG
 CATTGCCAGGAAAGAAATATTTGCATTGAATACTCTTATGTTAACAGCCAAATCCATTG
 CAAATGAAGTTTAGTGTGAATCTTAGCTACAGAAATGGGCTGTTCATTGGAGAAGGAGG
 TGGTGGGGTTTTTCAGGTTTCAAAAATCTCAACAGCTACTCCTCTTCTTCTGTGGCATT
 GATGGGGTTTTGCACTGTGGATCACAGGTAATCCTGCCTCCCTGTGCATCCTATCCATCT
 [C, A]
 CCTCTCTGAAAAGCTTACTTGCAAAGGATTTAAGCTGCTTTAATAAAAGCCACAACCTAC
 AGATAAATGTGACTTTATTTTTAGTCATGTTTTCAATAACACTATTGATCAGATTCTGT
 TTTTCACCAGAAAACCTTCAAAGCTTTCTTAAATTTAAACAGATGCTTTTCAGGTGAAG
 TTGGTTTACCTCTGAAATCAATTGAATTGAAATACTAAAAAAAATAGCACTTTCCAA
 GCAAGAAAAAAAACCTTTAGAAATTTGAAGTTAATGAAATAAGACTGGAAGACAGGC

6543 GCATTGAATACTCTTATGTTAACAGCCAAATCCATTTGCAAATGAAGTTTAGTGTGAATC
 TTAGCTACAGAAATGGGCTGTTCATTGGAGAAGGAGGTGGTGGGGTTTTTCAGGTTTCA
 AAAATCTCAACAGCTACTCCTCTTCTTCTGTGGCATTGATGGGGTTTTGCACTGTGGAT
 CACAGGTAATCCTGCCTCCCTGTGCATCCTATCCATCTCCCTCTCTGAAAAGCTTACTT
 GCAAAGGATTTAAGCTGCTTTAATAAAAGCCACAACCTACAGATAAATGTGACTTTATTTT
 [-, T]
 AGTCATGTTTTCAATAACACTATTGATCAGATTCTGTTTTTTACCAGAAAACCTTCAA
 GCTTCTTAAATTTAAAACAGATGCTTTTCAGGTGAAGTTGGTTTACCTCTGGAAATCA
 ATTGAATTGAAATACTAAAAAAAATAGCACTTTCCAAGCAAGAAAAAAAACCTTTAG
 AAATTTTGAAGTTAATGAAATAAGACTGGAAGACAGGCTGGCTCTCAGACACTTAAGGGG
 TTATCAAAGGAGTCAGTGACTGAGATTGCATCTAGAAGATGTTTCTGGAAAGCAATGAAC

8419 TTTGCATACAATTTTAAATAAATGTTAATACCCTATATCATGGATACAAGCAAAATATAG
 TTGACATAAATTGAGCATTTACTATAGGCAAAGAAGTACCCTTAGGGTTTTACGTGTATT
 ATTTAATCTTCCATAACCCCTGAGGTAGGTAATAGTACTGTCTCTGTTTGTGTTGCTGTTT
 TAATACTAATGCTAATATTTAGTTATGGACGCAGTCCCTTGGTGAGTACAGAGGACTTAA
 ACAAATGCAACCTGACGGTAATATAGTTGTTTACCTCTGATCTATATAATCAGTATCCCC
 [G, A]
 TTTTAAACAGAAGCACTAGGAAGTAACTTGAAAATGTTCATGTAGCTGTTATGTGGCAGAG
 ATAGAATTTTGAACCCAGGTGCCCTGGTTCTAGCGCTGCATTGTTGACTGTCCTGAAAC
 TCATGTCAATTTAACACATGAAAATATGTCATCATTATAATAAGTAAAGCACCTGATTAGC
 AGGAGCCTTGTGATATTATTACTGTCTTCTGCCATTTTGAATTCAGGTCTTTCTCTTG

FIGURE 3HH

GTTATGTCAACTCTTAGCTTTCTCCTTTGACCTTTTGTTACTTTTTCTTTTTGTTGTT
 8636 CTTGGTGAGTACAGAGGACTTAAACAAATGCAACCTGACGGTAATATAGTTGTTTACCTC
 TGATCTATATAATCAGTATCCCGTTTTTAACAGAAGCACTAGGAAGTAACTTGAAAATG
 TCATGTAGCTGTTATGTGGCAGAGATAGAATTTGAACCCAGGTGCCCTGGTTCTAGCGC
 CTGCATTGTTGACTGTCTGAACTCATGTCATTAAACACATGAAAATATGTCATCATT
 TAATAAGTAAAGCACCTGATTAGCAGGAGCCTTGTGATATTACTGTCTTCTGCCATT
 [T, C]
 TTGAATTCAGGTCTTTCTTCTTGGTTATGTCAACTCTTAGCTTTCTCCTTTGACCTTTTG
 TTACTTTTTCTTTTTGTTGTTAATGTATTACATTGAAAAATAAAATTTTTTTTTTTTG
 CAAGAAAATGTACTTTATTAGCTTTCTTTGTTCTGTGGGTTGATCTTCTGGATATTTCT
 TTATTTTATTTTATTTTATTATTATTATACTTTAAGTTTTAGGGTACATGTGCACAATGT
 GCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGTGCTGCACCCATTAACTCGT
 17222 ATTGAGCCCTTTAAATAGAACTGGAAGATAAACCTGGTCCCTACTCTGATTCTAAGAGC
 TTTTATACTAAAAGGAAAGAGAATGTGATGAGCATTTATGTATATAGCAAGGCATTACCA
 TCAACAGCCATTAAAAGGGGAGGTTTGTCAAGGTGGTCTGAGTCAGTTGAGTATTTGGC
 CTCTTCACACGTGTGAGAGGCTGGAGGCTGGTGGGAGCTCACATAGGCGTAACAGCCCA
 TGTTCAAATCCAGCTTCACTGCTTAGTGTTCGATTACATTGGCAAGGGTTGACTGCCTC
 [-, C, G]
 AGTGATTGTTTTAAGTGCTCTAGGCAAGTAATAAATATTAGTTCTTTTTGCCTTGTTCCT
 TCCACTATGGGTGACTGCCCTAATTGAGGGTATACCAGATAATTGCACTGTCTTGATTTG
 TTAAGTGCCTCTAAATGTTCTTCTCCTGACATCTGGACTATGTTCTAGAGGCCTAGGGG
 GAGGAGGAGGTAAGGCACCTTGACTTTCCCAAATTAGTCTGTACCCAAGTGGAACGTCAT
 AAATTGGGTACCTTAATTACACCATTGGGTATTACTAGGGTGATTACAGGGACAAGAGTT
 49439 TTATTATCTCTGGTAATCACGTCTTGAAAACACTTTTGTCTGATATTAATAAAGCCACA
 GTAGCTTTTCATACACCTTCTTGTTTACATATGATTTCCCATATTTCTTTATCCCATCTAT
 GTTATTAATAATGTGTCTTGTCATAGTATATAGTTTGTCTTGTCTTTTATTTCATTTTG
 TTTTCCTGATACTCTTTTCCCAATTAAGGAGGTAATAATCTGTAAGCAAAGCCTTATTTA
 CATAAACACTGCTGTGATCTTATACCAAATAAACAGCCCTAGCATGTGTGTGTGTGTG
 [A, T]
 GAGAGAGAGAGTGTGTGAATGTGTGTGTGTTTGGGCTTTCTGAATTAGATTTTCTTTCAA
 GATCCACCTACATCTTTACTTTTGGCCTAAGTAATGGTTGGTCAATGTTAACTGTGTAAAA
 TATTAATCTTTTTCTGAAGCTACAAAGAGTCCATGTCTACTTACTGTTCTAGGAAAAGTT
 TTTTCAAATTTGGGAAGTGTCTACCTTTTAAATATTTTCTGAGAGTGTTTAATTACTTC
 TATGATCTTAAAAGGTTCTCTCCATTTTACTTTTATCCAGCTGTACATATTCTGAGTAT
 49612 CATTTTGTTTTCTGATACTCTTTTCCCAATTAAGGAGGTAATAATCTGTAAGCAAAGCC
 TTATTTACATAAAACACTGCTGTGATCTTATACCAAATAAACAGCCCTAGCATGTGTGTGT
 GTGTGTGAGAGAGAGAGAGTGTGTGAATGTGTGTGTGTTGGGCTTTCTGAATTAGATTT
 TCTTTCAAGATCCACCTACATCTTTACTTTTGGCCTAAGTAATGGTTGGTCAATGTTAACT
 GTGTAAAATATTAATCTTTTCTGAAGCTACAAAGAGTCCATGTCTACTTACTGTCTAG
 [G, T]
 AAAAGTTTTTTCAAATTTGGGAAGTGTCTACCTTTTAAATATTTTCTGAGAGTGTTTAA
 TTACTTCTATGATCTTAAAAGGTTCTCTCCATTTTACTTTTATCCAGCTGTACATATTC
 TGAGTATGTTTTCCACCAGGAGAACCTGAGAATTTTTTTTTCTCTAGATTTTGAGTATA
 GAGATAAGATTTTATCCTGCATCCAGTTCCAACCTGTTAATATAATTCTATGCAAGTTTC
 CTCTCTTGTGTGTTTATTTCCCTTTATCCTTATCCTTAGTCATCTATTCCAATGTTTAT
 69716 CAGAAAAAAGGTGAGATAAGTAAGGAAGCCAAGGGCTGGGAAGGTGGAGGGGCCAGTTGT
 TGGAATTGACCGTCCGCCAAATGTTAATAGAGGGAGAAGTGACATTTGGCTGAATTCCAC
 ACACACTGAATGTAGCAGCCCCTCGCCTCAAGGAGTTTGTATCTAGCAGAGAGAGAATG
 TCTACAAGAGCATGGCAGATACATCGTGGGGTCGAAAATGAGTACAAGTGGAATGATTGG
 GGGTTACATTTAAAGAGAAAACCACAGCCACTGGGGGAGTTTCGGGAAAGGTCTTGGGAA
 [G, A]
 AGGTGACATCTGAGAGGCACCTTCCGTGCTAGGCCAGGCCAGGGTAGGGAGGGATCATG
 GGCAGGGTGTGTTTTTGAACAAGTTATCCAGGGTATGTGTAGCTCTTGGGAAGGGCAA
 GCTGGGGTCAAGTAGTGAGGACTGAGTGCTAAGATGAGAAGTTTTCTTCATTTCTGTGG
 ACATTGGAGAGTCTGACATTTTCAAGTAGGGGACTGATGTGATTAGAAATACAGTTTGA
 GAACCACATGTTGGCAGTGTGGATGAATGGGGGAGGAGGGCTGGGCTGGAGGCTCAGG
 69742 AGCCAAGGGCTGGGAAGGTGGAGGGGCCAGTTGTTGGAATTGACCGTCCGCCAAATGTTA

FIGURE 3II

ATAGAGGGAGAAGTGACATTTGGCTGAATTCACACACACTGAATGTAGCAGCCCCCTCGC
 CTC AAGGAGTTTTGTATCTAGCAGAGAGAGAATGTCTACAAGAGCATGGCAGATACATCG
 TGGGGTCGAAAAATGAGTACAAGTGGAATGATTGGGGGTACATTTAAAGAGAAAAACCACA
 GCCACTGGGGGAGTTTCGGGAAAGGTCTTGGGAAGAGGTGACATCTGAGAGGCACCTTCC
 [G, A]
 TGCTAGGCCAGGCCAGGGTAGGGAGGGATCATGGGCAGGGTGTGTTTTTGAACAAGTT
 ATCCAGGGTATGTGTAGCTCTTGGGAAGGGCAAGCTGGGGTCAGATAGTGAGGACTGAG
 TGCTAAGATGAGAAGTTTTTCTTCATTTCTGTGGACATTGGAGAGTCTGACATTTTTCAA
 GTAGGGGACTGATGTGATTAGAAATACAGTTTGAGAACCACATGTTGGCAGTGTGGGATG
 AATGGGGGAGGAGGGCTGGGCCTGGAGGCTCAGGCAGCCATCTGGGTAATGAGCCGGTAG
 69920 CGTGGGGTCGAAAAATGAGTACAAGTGGAATGATTGGGGGTACATTTAAAGAGAAAAACCA
 CAGCCACTGGGGGAGTTTCGGGAAAGGTCTTGGGAAGAGGTGACATCTGAGAGGCACCTT
 CCGTGCTAGGCCAGGCCAGGGTAGGGAGGGATCATGGGCAGGGTGTGTTTTTGAACAA
 GTTATCCCAGGGTATGTGTAGCTCTTGGGAAGGGCAAGCTGGGGTCAGATAGTGAGGACT
 GAGTGCTAAGATGAGAAGTTTTTCTTCATTTCTGTGGACATTGGAGAGTCTGACATTTTT
 [C, T]
 AAGTAGGGGACTGATGTGATTAGAAATACAGTTTGAGAACCACATGTTGGCAGTGTGGGA
 TGAATGGGGGAGGAGGGCTGGGCCTGGAGGCTCAGGCAGCCATCTGGGTAATGAGCCGGT
 AGCGGGCTGGGAGGTGAGAGGAGGTCTTAAATACCACAGCTATTGGGGACTTATAAAATT
 TTAACAGCCTTTTCAGATTATACTCTAAATCAGCAGACACTTAGATCTTTTTAACACCTT
 TTTCTGTTGTATGGTATGGTGATAAATGATGTATTAAATTTAAGTTTGGTTAATTTTAA
 70038 TTCCGTGCTAGGCCAGGCCAGGGTAGGGAGGGATCATGGGCAGGGTGTGTTTTTGAAC
 AAGTTATCCCAGGGTATGTGTAGCTCTTGGGAAGGGCAAGCTGGGGTCAGATAGTGAGGA
 CTGAGTGCTAAGATGAGAAGTTTTTCTTCATTTCTGTGGACATTGGAGAGTCTGACATTT
 TTCAAGTAGGGGACTGATGTGATTAGAAATACAGTTTGAGAACCACATGTTGGCAGTGTG
 GGATGAATGGGGGAGGAGGGCTGGGCCTGGAGGCTCAGGCAGCCATCTGGGTAATGAGCC
 [C, G]
 GTAGCGGGCTGGGAGGTGAGAGGAGGTCTTAAATACCACAGCTATTGGGGACTTATAAAA
 TTTTAAACAGCCTTTTCAGATTATACTCTAAATCAGCAGACACTTAGATCTTTTTAACACC
 TTTTCTGTTGTATGGTATGGTGATAAATGATGTATTAAATTTAAGTTTGGTTAATTTTA
 ATTGGTGTAATTTGTATTATCCTTTGAGTCGTAATTTATGTGTAGAAAATACAGTGATGT
 TGGGTAATTAACACATTCTTTTAAACCAGAACACCTATTTTGTGTAAATAGGAGTCTGCA
 70956 CACCTTACTATTCTTGTTCCTCTACTCAATCTTTGCGGGCAGAGATCACTTCCTCCAG
 CACATTCTACCCTTCCCTTTGGGGCCTGCACTGATGCCCCCTGCCTGGAAATGCTCCTTCC
 TCGTTACGCCCTACTCATCCTTCAAATCTCAGCTTAAAGGCTGCCTTCTTGGGGAAGGTT
 TTGCTGATGCTTCAATTAAGATAGCTCCTCCCGTGTATAATGTGCTGTTCTCTCAGCCT
 CCCATACCTCTGCACCTTGTACAGTGGTTGTACATCTCTCATTATAATTGTTGAGGCTC
 [C, T]
 GCCACCCCGACTCCCAGAATGCATCCTTCTGTAGGCAGAAGCCGGACTATCCTGCCCTC
 CACTCCTTGCCCAATCCCAGCCCCAGGTTTCCCTAGCCCCAGCCTGTGAGTGGGGCTGA
 GTGACGGCACTATCCCAGAGCAGCTGTCCCCGCTACAAGTTTACCAGGCAAACCTTTAAA
 AAATTATTATAAATGATGACCATGAACTGGAGGGGGTCGAGGGATCACTCTGGGCAGGT
 TGCTGAAGCCTGCTTTCTGTGGGCTCTCTGCAGGGACATGGGAATGACAGTTATTCTGGG
 71021 TCTACCCTTCCCTTTGGGGCCTGCACTGATGCCCCCTGCCTGGAAATGCTCCTTCCCTCGTT
 CAGCCCTACTCATCCTTCAAATCTCAGCTTAAAGGCTGCCTTCTTGGGGAAGGTTTGTCT
 GATGCTTCAATTAAGATAGCTCCTCCCGTGTATAATGTGCTGTTCTCTCAGCCTCCCAT
 ACCTCTGCACCTTGTACAGTGGTTGTACATCTCTCATTATAATTGTTGAGGCTCCGCCA
 CCCCAGCTCCAGAATGCATCCTTCTGTAGGCAGAAGCCGGACTATCCTGCCCTCCACT
 [A, C]
 CTGCCCCAATCCCAGCCCCAGGTTTCCCTAGCCCCAGCCTGTGAGTGGGGCTGAGTGAC
 GGCATATCCCAGAGCAGCTGTCCCCGCTACAAGTTTACCAGGCAAACCTTTAAAAAATT
 ATTATAAATGATGACCATGAACTGGAGGGGGTCGAGGGATCACTCTGGGCAGGTTGCTG
 AAGCCTGCTTTCTGTGGGCTCTCTGCAGGGACATGGGAATGACAGTTATTCTGGGTCTCC
 TTCATCTCAATGTTTGT
 71547 TTATTCTGGGTCTCCTTCATCTCAATGTTTGTCAACAAGGAATTTTGCCTGGGTAAATTT
 ATTTGGCAGACCTTTTCTCAGTAGATAATGTGTGATCAGCTTCAGCCAGCCCGGATCA
 GATGATCATCAAAGCCAAATGAGCAGTCAAAATTAATGACGTTTGTCTTGGCTTCATGAA
 TATAAATACTGCAAGAAAATGGAGGGAATGTCTTCTGCCACTTTGGAGTCATTCTGTGA

FIGURE 3JJ

TTTAAGTGTGCTGTTTTCCATGCATGAATGTTTTCTATGAGAACTATAAAGTTACTGAAT
[G, C]
TTCTCAGTAGAGTGACTTGATGTGTGTCATGTGGTACCTTTTAGTGCAGGATCTAGGGACCA
GCTTGGGACTTTGTCTTGGGTTGGTACAGTGTGATTGTACCAGGAGAGGACTGCAGCT
GCCAGGGGGTGGTAATTCTGTCCCAACAACCTATAGAACCACAGGGACAGGTGGCAGAGT
GTTGGGGCAATAGGCAGCCTGCCACTCAGTTTTTAATCTATTTCTAGAACATGGTGCAGT
CTAGAGACTTGCAGGGATTTGATGCCCCACAGTACTGTGTCTGGTCTGTCTGCATGTGCT

71592 TGCCTGGGTAAATTTATTTGGCAGACCTTTTCTCAGTAGATAATGCTGTGATCAGCTTCA
GCCAGCCCCGATCAGATGATCATCAAAGCCAAATGAGCAGTCAAATTAATGACGTTTT
GCTTTGCTTTCATGAATATAAATACTGCAAGAAAATGGAGGGAATTGTCTTCTGCCACTT
TGGAGTCATTTCGTGATTTAAGTGTGCTGTTTTCCATGCATGAATGTTTTCTATGAGAACT
ATAAAGTTACTGAATGTTCTCAGTAGAGTGACTTGATGTGTGTCATGTGGTACCTTTTAGTG
[C, G]
AGGATCTAGGGACCAGCTTGGGACTTTGTCTTGGGTTGGTACAGTGTGATTGTACCAGG
GAGAGGACTGCAGCTGCCAGGGGGTGGTAATTCTGTCCCAACAACCTATAGAACCACAGG
GACAGGTGGCAGAGTGTGGGGCAATAGGCAGCCTGCCACTCAGTTTTTAATCTAATTTCT
AGAACATGGTGCAGTCTAGAGACTTGCAGGGATTTGATGCCCCACAGTACTGTGTCTGGTC
CTGTCTGCATGTGCTGTGGCCAGGGCTGTGCTGGGTAGAGGTGGGCGTGTGGGGCAAGGA

71601 TAATTTATTTGGCAGACCTTTTCTCAGTAGATAATGCTGTGATCAGCTTCCAGCCCAGCCC
GGATCAGATGATCATCAAAGCCAAATGAGCAGTCAAATTAATGACGTTTTGCTTTGCTT
CATGAATATAAATACTGCAAGAAAATGGAGGGAATTGTCTTCTGCCACTTTGGAGTCAT
TCGTGATTTAAGTGTGCTGTTTTCCATGCATGAATGTTTTCTATGAGAACTATAAAGTTA
CTGAATGTTCTCAGTAGAGTGACTTGATGTGTGTCATGTGGTACCTTTTAGTGCAGGATCTA
[G, A]
GGACCAGCTTGGGACTTTGTCTTGGGTTGGTACAGTGTGATTGTACCAGGAGAGGACT
GCAGCTGCCAGGGGGTGGTAATTCTGTCCCAACAACCTATAGAACCACAGGGACAGGTGG
CAGAGTGTGGGGCAATAGGCAGCCTGCCACTCAGTTTTTAATCTATTTCTAGAACATGG
TGAGTCTAGAGACTTGCAGGGATTTGATGCCCCACAGTACTGTGTCTGGTCTGTCTGCA
TGTGCTGTGGCCAGGGCTGTGCTGGGTAGAGGTGGGCGTGTGGGGCAAGGAGCACATGTG

72024 GAGTGTGGGGCAATAGGCAGCCTGCCACTCAGTTTTTAATCTATTTCTAGAACATGGTG
CAGTCTAGAGACTTGCAGGGATTTGATGCCCCACAGTACTGTGTCTGGTCTGTCTGCATG
TGCTGTGGCCAGGGCTGTGCTGGGTAGAGGTGGGCGTGTGGGGCAAGGAGCACATGTGCA
TCTGTGTGCTCATACTCAGGGTGTCTGTCTGGAGCAGCTGGTAGTGGGGTCAAGTGGGG
TGGACGTGGAGAGGGAGGGCTCTGCAGAGGCCCTTCAGGGCTGAAGGGGAAGTGGGGAGA
[C, G]
GGGTTTCCAGGCCTCTGTCCACCTCAATTCTAGCAGCTCTGCATTTACATATTGGAGATC
CCCTCAAGATTTCAATGGAATAAAACATTTCATTCCAGGACTAAAAATTTTGAAAACCTGA
AGTTTTCTTTCTATCAGGATGTCCAGCAGACTCAATAATTATATATTGTTTGTCTTAGCA
TTTACCAAGCATCAGGCATTTGGAAGCATTCTGTGTTCTTTCTTCATGAATCCTCACTTA
GCTGTGCAAGGATATGCTAGTTTTATTATCCCCACTTACATATAAGGAGCCCCAGGCCT

72161 TGCTGGGTAGAGGTGGGCGTGTGGGGCAAGGAGCACATGTGCATCTGTGTGCTCATACTC
AGGGTGCTTGCTCTGGAGCAGCTGGTAGTGGGGTCAAGTGGGGTGGACGTGGAGAGGGAG
GGCTCTGCAGAGGCCTTTTCAGGGCTGAAGGGGAAGTGGGGAGACGGGTTTCCAGGCCTCT
GTCCACCTCAATTCTAGCAGCTCTGCATTTACATATTGGAGATCCCCTCAAGATTTCAAT
GGAATAAAACATTTCATTCCAGGACTAAAAATTTGAAAACCTGAAGTTTTCTTTCTATC
[A, G]
GGATGTCCAGCAGACTCAATAATTATATATTGTTTGTCTTAGCATTACCAAGCATCAGGC
ATTTGGAAGCATTCTGTGTTCTTTCTTCATGAATCCTCACTTAGCTGTGCAAGGGATATG
CTAGTTTTATTATCCCCACTTACATATAAGGAGCCGAGGCCTAGGTATGCTAAGTGAGT
TGCTGGGATTTCAGAGTCAGGCCAGTGTGTCTACAGAGATGGTCTCCAACCTACCCACCT
ACAGCCAAGTCACTGAGTTCCTGGTCTCTGAGCCTGCAGAACAGTTTCTTGGTTTCTTCA

72259 TGGGGTGGACGTGGAGAGGGAGGGCTCTGCAGAGGCCTTTTCAGGGCTGAAGGGGAAGTGG
GGAGACGGGTTTCCAGGCCTCTGTCCACCTCAATTCTAGCAGCTCTGCATTTACATATTG
GAGATCCCCTCAAGATTTCAATGGAATAAAACATTTCATTCCAGGACTAAAAATTTGAAA
ACCTGAAGTTTTCTTTCTATCAGGATGTCCAGCAGACTCAATAATTATATATTGTTTGC
TTAGCATTTACCAAGCATCAGGCATTTGGAAGCATTCTGTGTTCTTTCTTCATGAATCCT
[C, T]
ACTTAGCTGTGCAAGGGATATGCTAGTTTTATTATCCCCACTTACATATAAGGAGCCCCGA

FIGURE 3KK

GGCCTAGGTATGCTAAGTGAGTTGTCTGGGATTGAGAGTCAGGCCAGTGTGTCTACAGAG
 ATGGTCTCCAACCTACCCACCTACAGCCAAGTCACTGAGTTCTTGGTCTCTGAGCCTGCA
 GAACAGTTTTCTGGTTTCTTCATCTGCAGAACAGGGAAAATGAAATTTTTACAAAATCA
 GACATCACGTGCAAAGCAGCCAGGAGTAGAACATTGTAGACACTTGGTGAATGTCACTCT

72363 CTGCATTTACATATTGGAGATCCCCTCAAGATTCAATGGAATAAAACATTCAATCCAGG
 ACTAAAAATTTGAAAACCTGAAGTTTTCTTTCTATCAGGATGTCCAGCAGACTCAATA
 ATTATATATTGTTTGCTTAGCATTTACCAAGCATCAGGCATTGGAAGCATTCTGTGTTT
 TTTCTTCATGAATCCTCACTTAGCTGTGCAAGGGATATGCTAGTTTTATTATCCCCACTT
 ACATATAAGGAGCCCCGAGGCTAGGTATGCTAAGTGAGTTGTCTGGGATTGAGAGTCAGG
 [T, C]
 CAGTGTGTCTACAGAGATGGTCTCCAACCTACCCACCTACAGCCAAGTCACTGAGTTCTT
 GGTCTCTGAGCCTGCAGAACAGTTTCTTGGTTTCTTCATCTGCAGAACAGGGAAAATGAA
 ATTTTTACAAAATCAGACATCACGTGCAAAGCAGCCAGGAGTAGAACATTGTAGACACT
 TGGTGAATGTCACTCTTAACCAAGAAACAAGACTGTGCCTTTGGGTTGAGTGGCTCACA
 CATTTATTTGATGAATTAGGTCAGTGTTTTGTTGATTATCACAGTGGTGAGGTCCATG

72639 AGTTGTCTGGGATTGAGAGTCAGGTCAGGTCAGTGTGTCTACAGAGATGGTCTCCAACCTACCCA
 CCTACAGCCAAGTCACTGAGTTCTTGGTCTCTGAGCCTGCAGAACAGTTTCTTGGTTTCT
 TCATCTGCAGAACAGGGAAAATGAAATTTTTACAAAATCAGACATCACGTGCAAAGCAG
 CCAGGAGTAGAACATTGTAGACACTTGGTGAATGTCACTCTTAACCAAGAAACAAGACTG
 TGCCTTTGGGTTGAGTGGCTCACACATTTATTTGATGAATTAGGTCAGTGTTTTGTTT
 [G, C]
 ATTATCACAGTGGTGAGGTCCATGCAGGTAGCTGTAGGGTGGAAGAATCACTCATCCTTG
 GGTCTGCTCTGACACCTACAGGCTGTGCAGCCTGAAGATCTAGGGGAATATCTGTTTCT
 TCCTAATACCTGTAGATTAGGGATCATTGCTTCTTCTAATACCTGTAGATTAGGGATCA
 TTGCACCAGCTTCTGGGTTGTGTTGAGGTTGAAGTAAAACGAATACATACAGAAGTTCC
 TGCTGTTCTGTGAATATTTGAATCTGCACCCACTTGTAGCTTTGTGAGATCACTCTTAAC

72698 ACCTACAGCCAAGTCACTGAGTTCTTGGTCTCTGAGCCTGCAGAACAGTTTCTTGGTTTC
 TTCATCTGCAGAACAGGGAAAATGAAATTTTTACAAAATCAGACATCACGTGCAAAGCA
 GCCAGGAGTAGAACATTGTAGACACTTGGTGAATGTCACTCTTAACCAAGAAACAAGACT
 GTGCCTTTGGGTTGAGTGGCTCACACATTTATTTGATGAATTAGGTCAGTGTTTTGTT
 TGATTATCACAGTGGTGAGGTCCATGCAGGTAGCTGTAGGGTGGAAGAATCACTCATCCT
 [T, C]
 GGGTCCTGCTCTGACACCTACAGGCTGTGCAGCCTGAAGATCTAGGGGAATATCTGTTTC
 TTCTAATACCTGTAGATTAGGGATCATTGCTTCTTCTAATACCTGTAGATTAGGGATC
 ATTGCACCAGCTTCTGGGTTGTGTTGAGGTTGAAGTAAAACGAATACATACAGAAGTTC
 CTGCTGTTCTGTGAATATTTGAATCTGCACCCACTTGTAGCTTTGTGAGATCACTCTTAA
 CGGTAGTATTTAAGAACATTTGAACCTCCGCTGTGGGCTCATGATGAACCTTCATTTCTCTT

72716 GAGTTCTTGGTCTCTGAGCCTGCAGAACAGTTTCTTGGTTTCTTCATCTGCAGAACAGGG
 AAAATGAAATTTTTACAAAATCAGACATCACGTGCAAAGCAGGAGTAGAACATTG
 TAGACACTTGGTGAATGTCACTCTTAACCAAGAAACAAGACTGTGCCTTTGGGTTGAGT
 GGCTCACACATTTATTTGATGAATTAGGTCAGTGTTTTGTTTGAATTATCACAGTGGTGA
 GGTCCATGCAGGTAGCTGTAGGGTGGAAGAATCACTCATCCTTGGGTCCTGCTCTGACAC
 [C, A]
 TACAGGCTGTGCAGCCTGAAGATCTAGGGGAATATCTGTTTCTTCTAATACCTGTAGAT
 TAGGGATCATTGCTTCTTCTAATACCTGTAGATTAGGGATCATTGCACCAGCTTCTG
 GTTGTGTTGAGGTTGAAGTAAAACGAATACATACAGAAGTTCTGCTGTTCTGTGAATAT
 TTGAATCTGCACCCACTTGTAGCTTTGTGAGATCACTCTTAACGGTAGTATTTAAGAACA
 TTTGAACCTCCGCTGTGGGCTCATGATGAACCTTCATTTCTCTTCTGGCGGTGGACCTGTG

86903 AATTGGGAAATATTTTGAAGAGAATGAAATGGAAAAACAACATATGAAAACCTATGGGG
 GTACAGCCAGAGTAGTGCTTAGCAGGACATTTATAGCTTCACATACCTCCATTAAAAAGA
 AGAAAGATCTCAAAATCAATAACCTAACCTTCTGCCATAAAAAACAGAAAAAGAGATA
 AACTCAAAATAGCAGAAGGAAGTTATTAGATTAGAGAAAAATACAGAATATAAAAACAA
 TATAAGAAAATC
 [C, A]
 ATAAAAATGTTTTTTAAAAACCAACAAATTGGGAAACCTTTACTTAGACTGTCAAGAAAA
 AGGAGAGAAGCCTCACATTACTAAAAATCAGGAATGAAAGCACGAATATTAATACCAACCT
 TACATAAATTTATGAGAATACTTTAAAAAATTGTATTGCAACAAATTAGATAACCTATA
 TGAAAATGGACAAATTATTGGAATGACTATTAACCTGTCTCAAAAAATCTAAATAGGC

FIGURE 3LL

CTATAACAGAGA

89261 GACTTACACAGGAACTATAAAATATCACTGAAATGAAGAACTAAATAAGTGGAAGATA
TGTTTCATGGATTAGAAGACTTAATATTGTTATGGGTGAGAAGACTTAATATTGCTAAAT
GGCAATATCCCCCAATTAATCTACAGATTCAATGCAATCTTTATCAAAATTCTGGCTGC
CCTTTTTGTAAATTTGACAAGGTATTTGTTTCTAAATTTGATATGGAAAGTGATGAAGT
CAGAAAGAAGTTAGGGGATTATACCTCCCAATTTGAAAACCTATAAACTACAATAATG
[C, T]
CATCACCAGATGGAGCGACATGCACCTTATAGTCCCAGCTACTCAGGAGGCTGAGGCAGG
AGCATCCCTCGAGCCAGGAGTTTGAGACCAGCTGGACAACATAGGAAGACCCTGTCTC
AACTTAAAGAAAGCAAACCTACAGTAATACAGTGTGGTACTGACATAAGGATAGCCATATA
GATTAATGAAATAGAACTGACAGTGTAGAAATAAATCATTTATGGTCAGTTGATTTTTGC
CAAAGGTTCTAAGACAGTTCATGGGAAAAAAGTCTTCTCAAAATTTGGTCCCAGAGT

95175 CAGTGGAGTCTTTCCATACCTCAATTTTTTCATCAAACATTGAGTTGAAGTGTACACTTC
TCTCGCAAATAAGAAATGGGAAGTTAGAAAATCAAGAAAGGTTAAATGAGTTGGCCAG
TGTCCCAGGGCAGGGACCTAGGCCAAAAACAAAAGGCTTCTAATTCCAAATCCAGTATTC
TCTGCTAAATGTGCCACCTCCCTCCCTTTAGGGTTGGTGGAGGTATCGATACTGGGGCT
AGTCCTACAGCTAATGCTTTATGATTCTTTGTTCTGCTTCACTCAGCACCTGCTGTACCA
[T, C]
GTTATGTTTGTAAAGTGGCTTAGTGTTAACTTTTCTCCAAAAGGCAGCAGGGTCTGGAACA
GGAGACTGGCCAGTCTGGCATCTGGAGAGGATGGTGGTTGTGGTGTTCACAGCTCCT
CCATTACCACCTGGTATCATTAGTATTACTTTGCAAACCTGAATCATAAATCAACTCATT
TAATGTAGAGAGGGCAAAGTTGCTGAGAAATGTTTTGTGGTTGGTGGCCGAGCTTC
AACTCTGGGAGGGTGCCTGACTTGACAGTATCACCTTAGTCACTAAGGAAAAAGAGATCC

96648 CAACAGACTAACTTCCTATTTTGCGTAGATGCTCCTGTGCACGCCTTTATTTTACACGG
AATGTAAATATTGTAATGACTGATTTTCCTTTGAGACTGTAATACAGGTAATGTTCTTA
TTCAACTTTGTAAACCAAGACCTGACACACAGTAGGTATTTAAAAACTGTTTGTATGTG
ACCAAATTTATACAGAAAAAAGAGAAGTACACCAGGATTTTAAAGTCTCTTTTTTTTTT
TTATTTTTTCAAAAGGATTTGCTGTAAGTCTTCAAGTCATTTTGTCCAATCCAAAAGCTG
[T, G]
ATTTAAGCGTCGTGGATCCCAGCCAGGGATGCAAGAATCTGACTTTCTCAAACAGATAAC
AACAGTCGAAGAACTGGAACCGAAAGCAAATAACTGCACTAAGGTATTCTTACACTTGT
GCTGCCCCGACCTCGAGTGTACCATGAAGAGTGCCTACCCAAGCTATTTCTTCCCCTT
CAGGTTCTCGTGTGGCACACTCGGACAGAGAAGGTTAATCTAGCCAACGAGCCAAAGTAC
CACCTGGACACAGTGAAAATTGAGGTATAAATTGAAGCAGCACTGGTGCAGTTTGTCCA

99242 AGCATCTTAACCTGTGATTCTCTTACTTCCAAAATTGGTGATAAGAGAAGGAAAGGCAA
GATTTACCATATAGTGAGTGGGTTTAAACCTTCACTCAGAGTTAGACTGTGTCTTAAT
TTAATACATTTGACTTGACTTATTTACAGTTTCAAAGACACTAACATAAACTACATCACT
AATCAGGCATAAGTGTCTGAAGAAGCAGATCACGTCTTCATACCTACTAAAGGACATTTT
AACCACTTGTGCTTGGCCAGTAGATTGCACTGATGGAGTGTGGAGAACAGCATCACCC
[A, G, T]
TCTGCATTATCTGGAAGTAAGAGCCAGTATTAACCTCCTTCCGTTTCATCTAGCACCTTA
ACCTGAGCTGGGTGTGCTTCAGCATGTTGACCATGTGACTGACACTTAGCACATACAATT
TTTAGATTCCCAGCGGGTAGAGACCAATGTTTACCTATATTCTTGTAATGGTGGTAG
CAAAATTAAGTGTATATAGTGATTGTGCTAATGTTAGAAATCACTCTAGACTATTCC
CTGAATGCTCTAAAGGTAAACAAAGTGACCAAACAGAAACCAAGATTGCCAAATGCTGG

99349 CTGTGTTCTTAATTTAATACATTTGACTTGACTTATTTACAGTTTCAAAGACACTAACAT
AACTACATCACTAATCAGGCATAAGTGTCTGAAGAAGCAGATCACGTCTTCATACCTAC
TAAAGGACATTTTAAACACCTTGTGCTTGGCCAGTAGATTGCACTGATGGAGTGTGGAG
AACAGCATCACCTTCTGCATTATCTGGAAGTAAGAGCCAGTATTAACCTCCTTCCGTT
CATCTAGCACCTTAACCTGAGCTGGGTGTGCTTCAGCATGTTGACCATGTGACTGACACT
[T, C]
AGCACATACAATTTTTTAGATTCCAGCGGGTAGAGACCAATGTTTTACCTATATTCTTG
TAAATGGTGGTAGCAAAATTAAGTGTGATATATAGTGATTGTGCTAATGTTAGAAATCAC
TCTAGACTATTCCCTGAATGCTCTAAAGGTAAACAAAGTGACCAAACAGAAACCAAGATT
GCCAAAATGCTGGAGGAACATCAATGGGAAGTGTAAAAGGAAGAAGAGTGGGAGCATGAA
CCTCTCTAAGAGCCTTTGTCTGTGCAGCTAGAGAAAAGTCAGAACACAGCACCTGAAATA

99443 GAAGCAGATCACGTCTTCATACCTACTAAAGGACATTTTAAACACCTTGTGCTTGGCCAG

FIGURE 3MM

TAGATTGCACTGATGGAGTGCTGGAGAACAGCATCACCTTCTGCATTATCTGGAAGTAA
GAGCCAGTATTAACTCCTTCCTGGTTCATCTAGCACCTTAACCTGAGCTGGGTGTGCTTC
AGCATGTTGACCATGTGACTGACACTTAGCACATACAATTTTTTAGATTCCCAGCGGGTA
GAGACCAATGTTTTACCTATATTCTTGTAATGGTGGTAGCAAATTAAGTGTATATAT
[A, G]

GTGATTGTGCTAATGTTAGAAATCACTCTAGACTATTCCCTGAATGCTCTAAAGGTAAAA
CAAGTGACCAAACAGAAACCAAGATTGCCAAAATGCTGGAGGAACATCAATGGGAAGTGT
AAAAGGAAGAAGAGTGGGAGCATGAACCTCTCTAAGAGCCTTTGTCTGTGCAGCTAGAGA
AAAGTCAGAACACAGCACCTGAAATAGAAATGTTCTATCTCAGCTCTAACTTAGGTAGAA
ATAGGATTTTATAATATGAGGGGATGTCTGGTTCACACCTTATGGGAATTGAATCTTTTT

99867. AGGAAGAAGAGTGGGAGCATGAACCTCTCTAAGAGCCTTTGTCTGTGCAGCTAGAGAAAA
GTCAGAACACAGCACCTGAAATAGAAATGTTCTATCTCAGCTCTAACTTAGGTAGAAATA
GGATTTTATAATATGAGGGGATGTCTGGTTCACACCTTATGGGAATTGAATCTTTTGT
CTCTTTTAAACATAAAAGTCATTATAGGGTATGTAAAAAGAAAATACAACTTTACAAAG
GTTTCTCAACAAAAGAATTTTACAGAGCCATGGGGCAGTAATCATCCGACCTGAAAAA
[T, C]

AGCCTTAGATCCCTCATAAATAGTGCTTTGAGAATATGAGGCTAGATT

FIGURE 3NN